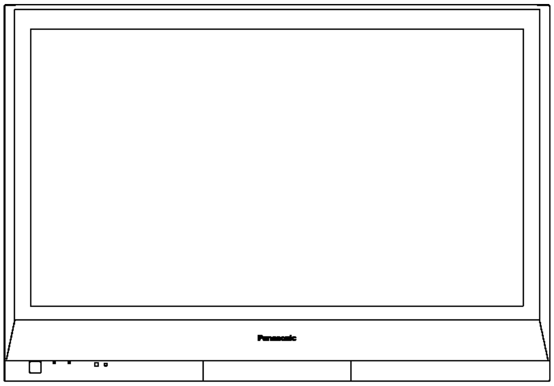
ORDER NO. MTNC060481CE
B19 Canada: B07

Service Manual

Digital High Definition Plasma Television



TH-58PX60U

GP9DU Chassis

Specifications

Power Source	AC 120 V, 50/60 Hz	
Power Consumption		
Maximum	655 W	
Standby condition	0.2 W	
Plasma Display panel		
Drive method	AC type	
Aspect Ratio	16 : 9	
Contrast Ratio	10000 : 1	
Visible screen size	148 cmV	
(W × H × Diagonal)	50.7 ” × 28.5 ” × 58.1 ” (1,287 mm × 723 mm × 1,476 mm)	
(No. of pixels)	1,049,088 (1,366 (W) × 768 (H)) [4,098 × 768 dots]	
Sound		
Speaker	4.8 ” × 2.4 ” (120 mm × 60 mm) × 2 pcs, 8Ω	
Audio Output	20 W [10 W + 10 W] (10 % THD)	
Channel Capability (Digital/Analog)	VHF/UHF: 2 - 69, CATV: 1 - 135	
Operating Conditions	Temperature: 32 °F - 104 °F (0 °C - 40 °C)	
	Humidity: 20 % - 80 % RH (non-condensing)	
Connection Terminals		
INPUT 1-3	VIDEO:	RCA PIN Type × 1 1.0 V [p-p] (75 Ω)
	S-VIDEO:	Mini DIN 4-pin Y: 1.0 V [p-p] (75 Ω) C: 0.286 V [p-p] (75 Ω)
	AUDIO L-R:	RCA PIN Type × 2 0.5 V [rms]
COMPONENT VIDEO INPUT 1-2	Y:	1.0 V [p-p] (including synchronization)
	P_B, P_R:	± 0.35 V [p-p]
	AUDIO L-R:	RCA PIN Type × 2 0.5 V [rms]
HDMI 1-2	TYPE A Connector	
	AUDIO L-R:	RCA PIN Type × 2 0.5 V [rms]
Card slot	SD CARD slot × 1	
AV PROG. OUT	VIDEO:	RCA PIN Type × 1 1.0 V [p-p] (75 Ω)

Panasonic®

© 2006 Matsushita Electric Industrial Co., Ltd. All rights reserved. Unauthorized copying and distribution is a violation of law.

	AUDIO L-R:	RCA PIN Type × 2 0.5 V [rms]
DIGITAL AUDIO OUT	PCM/Dolby Digital, Fiber Optic	
FEATURES	3D Y/C FILTER	
	CLOSED CAPTION V-Chip	
	Photo Viewer	
Dimensions (W × H × D)		
Including pedestal	55.1 ” × 39.3 ” × 16.9 ” (1,399 mm × 997 mm × 430 mm)	
TV Set only	55.1 ” × 36.8 ” × 3.9 ” (1,399 mm × 934 mm × 99 mm)	
Weight		
Including pedestal	138.9 lb. (63 kg)	
TV Set only	130.1 lb. (59 kg)	

Note:

Design and Specifications are subject change without notice.

Weight and Dimensions shown are approximate.

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

CONTENTS

Page
1 Applicable signals **4**
2 Safety Precautions **4**
  2.1. General Guidelines 4
3 Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices **5**
4 About lead free solder (PbF) **6**
5 Service Hint **7**
6 Plasma panel replacement method **8**
  6.1. Remove the Back cover 8
  6.2. Remove the fan 8
  6.3. Remove the rear terminal cover 8
  6.4. Remove the P-Board 8
  6.5. Remove the PA-Board 10
  6.6. Remove the tuner unit 10
  6.7. Remove the DT-Board 10
  6.8. Remove the DG-Board 11
  6.9. Remove the H-Board 11
  6.10. Remove the HC-Board 11
  6.11. Remove the D-Board 12
  6.12. Remove the SU-Board 12
  6.13. Remove the SD-Board 12
  6.14. Remove the SC-Board 12
  6.15. Remove the SS2-Board 13
  6.16. Remove the SS3-Board 13
  6.17. Remove the SS-Board 13
  6.18. Remove the C1-Board 13
  6.19. Remove the C2-Board 14
  6.20. Remove the C3-Board 14
  6.21. Remove the stand brackets and rear mounting metals 14
  6.22. Remove the C4-Board 15
  6.23. Remove the C5-Board 15
Page
  6.24. Remove the C6-Board 15
  6.25. Remove the front bracket 15
  6.26. Remove the G-Board, GK-Board and GS-Board 16
  6.27. Remove the speaker L, R 16
  6.28. Remove the S-Board 16
  6.29. Remove the K-Board 17
  6.30. Remove the Plasma panel section from the Front frame (glass) 17
  6.31. Replace the plasma panel (finished) 17
7 Caution statement **18**
  7.1. Caution statement. 18
8 Location of Lead Wiring **19**
  8.1. Lead of Wiring (1)-1 19
  8.2. Lead of Wiring (1)-2 20
  8.3. Lead of Wiring (2) 21
9 Self-check Function **22**
  9.1. Check of the IIC bus lines 22
  9.2. Power LED Blinking timing chart 24
  9.3. No Power 25
  9.4. No Picture 26
  9.5. Local screen failure 27
10 Serviceman Mode **28**
  10.1. How to enter into Serviceman Mode 28
  10.2. Contents of adjustment mode 28
  10.3. Memory edit mode 29
  10.4. Device data mode 30
11 Adjustment Procedure **31**
  11.1. Driver Set-up 31
  11.2. Initialization Pulse Adjust 32
  11.3. P.C.B. (Printed Circuit Board) exchange 32
  11.4. Adjustment Volume Location 33

11.5. Test Point Location ---- 33

12 Adjustment ---- 34

12.1. White balance adjustment ---- 34

12.2. Sub bright adjustment ---- 36

12.3. ABL operation level adjustment ---- 37

13 Hotel mode ---- 38

14 Conductor Views ---- 39

14.1. P-Board ---- 39

14.2. PA-Board ---- 44

14.3. H-Board ---- 46

14.4. G and GS-Board ---- 48

14.5. GK, HC, K and S-Board ---- 49

14.6. DG-Board ---- 50

14.7. DT-Board ---- 52

14.8. D-Board ---- 54

14.9. C1-Board ---- 56

14.10. C2-Board ---- 57

14.11. C3-Board ---- 58

14.12. C4-Board ---- 59

14.13. C5-Board ---- 60

14.14. C6-Board ---- 61

14.15. SC-Board ---- 62

14.16. SU-Board ---- 65

14.17. SD-Board ---- 66

14.18. SS-Board ---- 67

14.19. SS2 and SS3-Board ---- 70

15 Schematic and Block Diagram ---- 71

15.1. Schematic Diagram Note ---- 71

15.2. Main Block Diagram ---- 72

15.3. P-Board Block Diagram ---- 73

15.4. P-Board (1 of 3) Schematic Diagram ---- 74

15.5. P-Board (2 of 3) Schematic Diagram ---- 75

15.6. P-Board (3 of 3) Schematic Diagram ---- 76

15.7. PA-Board Block Diagram ---- 77

15.8. PA-Board (1 of 3) Schematic Diagram ---- 78

15.9. PA-Board (2 of 3) Schematic Diagram ---- 79

15.10. PA-Board (3 of 3) Schematic Diagram ---- 80

15.11. H-Board Block Diagram ---- 81

15.12. H-Board (1 of 3) Schematic Diagram ---- 82

15.13. H-Board (2 of 3) Schematic Diagram ---- 83

15.14. H-Board (3 of 3) Schematic Diagram ---- 84

15.15. G, GK, HC, K and S-Board Block Diagram ---- 85

15.16. G-Board Schematic Diagram ---- 86

15.17. GK, K, HC and S-Board Schematic Diagram ---- 87

15.18. DG-Board (1 of 3) Block Diagram ---- 88

15.19. DG-Board (2 of 3) Block Diagram ---- 89

15.20. DG-Board (3 of 3) Block Diagram ---- 90

15.21. DG-Board (1 of 8) Schematic Diagram ---- 91

15.22. DG-Board (2 of 8) Schematic Diagram ---- 92

15.23. DG-Board (3 of 8) Schematic Diagram ---- 93

15.24. DG-Board (4 of 8) Schematic Diagram ---- 94

15.25. DG-Board (5 of 8) Schematic Diagram ---- 95

15.26. DG-Board (6 of 8) Schematic Diagram ---- 96

15.27. DG-Board (7 of 8) Schematic Diagram ---- 97

15.28. DG-Board (8 of 8) Schematic Diagram ---- 98

15.29. DT and GS-Board Block Diagram ---- 99

15.30. DT-Board (1 of 6) Schematic Diagram ---- 100

15.31. DT-Board (2 of 6) Schematic Diagram ---- 101

15.32. DT-Board (3 of 6) and GS-Board Schematic Diagram ---- 102

15.33. DT-Board (4 of 6) Schematic Diagram ---- 103

15.34. DT-Board (5 of 6) Schematic Diagram ---- 104

15.35. DT-Board (6 of 6) Schematic Diagram ---- 105

15.36. D-Board (1 of 2) Block Diagram ---- 106

15.37. D-Board (2 of 2) Block Diagram ---- 107

15.38. D-Board (1 of 8) Schematic Diagram ---- 108

15.39. D-Board (2 of 8) Schematic Diagram ---- 109

15.40. D-Board (3 of 8) Schematic Diagram ---- 110

15.41. D-Board (4 of 8) Schematic Diagram ---- 111

15.42. D-Board (5 of 8) Schematic Diagram ---- 112

15.43. D-Board (6 of 8) Schematic Diagram ---- 113

15.44. D-Board (7 of 8) Schematic Diagram ---- 114

15.45. D-Board (8 of 8) Schematic Diagram ---- 115

15.46. C1, C2, C5 and C6 Block Diagram ---- 116

15.47. C2, C3, C4 and C5 Board Block Diagram ---- 117

15.48. C1-Board (1 of 2) Schematic Diagram ---- 118

15.49. C1-Board (2 of 2) Schematic Diagram ---- 119

15.50. C2-Board (1 of 2) Schematic Diagram ---- 120

15.51. C2-Board (2 of 2) Schematic Diagram ---- 121

15.52. C3-Board (1 of 2) Schematic Diagram ---- 122

15.53. C3-Board (2 of 2) Schematic Diagram ---- 123

15.54. C4-Board (1 of 2) Schematic Diagram ---- 124

15.55. C4-Board (2 of 2) Schematic Diagram ---- 125

15.56. C5-Board (1 of 2) Schematic Diagram ---- 126

15.57. C5-Board (2 of 2) Schematic Diagram ---- 127

15.58. C6-Board (1 of 2) Schematic Diagram ---- 128

15.59. C6-Board (2 of 2) Schematic Diagram ---- 129

15.60. SC, SU and SD-Board Block Diagram ---- 130

15.61. SC-Board (1 of 2) Schematic Diagram ---- 131

15.62. SC-Board (2 of 2) Schematic Diagram ---- 132

15.63. SU-Board (1 of 2) Schematic Diagram ---- 133

15.64. SU-Board (2 of 2) Schematic Diagram ---- 134

15.65. SD-Board (1 of 2) Schematic Diagram ---- 135

15.66. SD-Board (2 of 2) Schematic Diagram ---- 136

15.67. SS, SS2 and SS3-Board Block Diagram ---- 137

15.68. SS-Board (1 of 2), SS2 and SS3-Board Schematic Diagram ---- 138

15.69. SS-Board (2 of 2) Schematic Diagram ---- 139

16 Parts Location & Mechanical Replacement Parts List ---- 141

16.1. Parts Location ---- 141

16.2. Packing Exploded Views ---- 142

16.3. Mechanical replacement Part List ---- 143

17 Electrical Replacement Parts List ---- 144

17.1. Replacement Parts List Notes ---- 144

17.2. Electrical Replacement Parts List ---- 145

1 Applicable signals

* Mark: Applicable input signal for Component (Y, PB, PR), and HDMI

	horizontal frequency (kHz)	vertical frequency (Hz)	COMPONENT	HDMI
525 (480) / 60i	15.73	59.94	*	*
525 (480) /60p	31.47	59.94	*	*
750 (720) /60p	45.00	59.94	*	*
1,125 (1,080) /60i	33.75	59.94	*	*
1,125 (1,080) /60p	67.43	59.94		*
1,125 (1,080) /60p	67.50	60.00		*

- Signals other than those shown above may not be displayed properly
- The above signals are reformatted for optimal viewing on your display.

2 Safety Precautions

2.1. General Guidelines

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

2.1.1. Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1MΩ and 5.2MΩ.
   When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

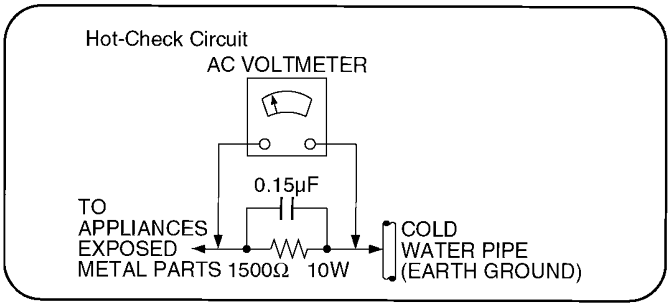

Hot-Check Circuit
AC VOLTMETER
0.15μF
TO APPLIANCES EXPOSED METAL PARTS
1500Ω 10W
COLD WATER PIPE (EARTH GROUND)

Figure 1

2.1.2. Leakage Current Hot Check (See Figure 1.)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 1.5kΩ, 10 watts resistor, in parallel with a 0.15μF capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

3 Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as alminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, alminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

   Caution

   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are imporant for safety.
These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

4 About lead free solder (PbF)

Note: Lead is listed as (Pb) in the periodic table of elements.

In the information below, Pb will refer to Lead solder, and PbF will refer to Lead Free Solder.

The Lead Free Solder used in our manufacturing process and discussed below is (Sn+Ag+Cu).

That is Tin (Sn), Silver (Ag) and Copper (Cu) although other types are available.

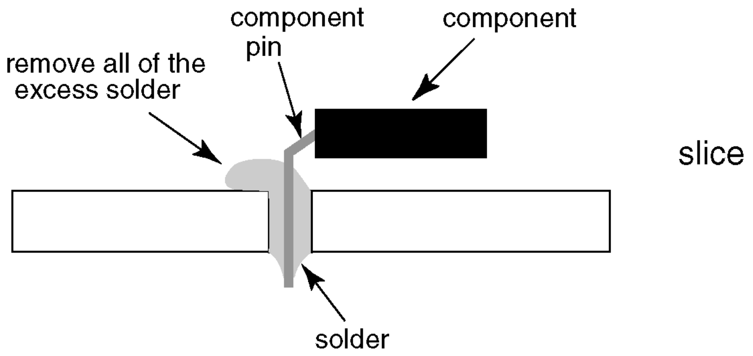
This model uses Pb Free solder in it's manufacture due to environmental conservation issues. For service and repair work, we'd suggest the use of Pb free solder as well, although Pb solder may be used.

PCBs manufactured using lead free solder will have the PbF within a leaf Symbol PbF stamped on the back of PCB.

Caution

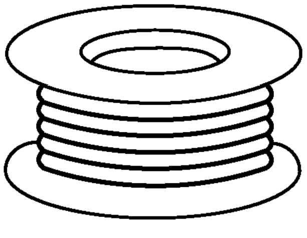
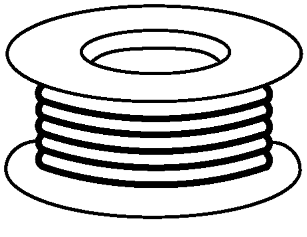
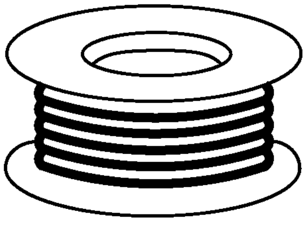
- Pb free solder has a higher melting point than standard solder. Typically the melting point is 50 ~ 70 °F (30~40 °C) higher. Please use a high temperature soldering iron and set it to 700 ± 20 °F (370 ± 10 °C).
- Pb free solder will tend to splash when heated too high (about 1100 °F or 600 °C).

  If you must use Pb solder, please completely remove all of the Pb free solder on the pins or solder area before applying Pb solder. If this is not practical, be sure to heat the Pb free solder until it melts, before applying Pb solder.
- After applying PbF solder to double layered boards, please check the component side for excess solder which may flow onto the opposite side. (see figure below)



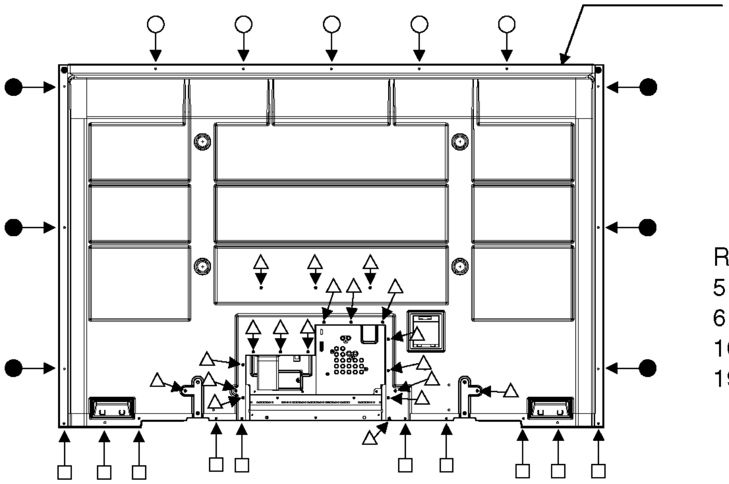
Suggested Pb free solder

There are several kinds of Pb free solder available for purchase. This product uses Sn+Ag+Cu (tin, silver, copper) solder. However, Sn+Cu (tin, copper), Sn+Zn+Bi (tin, zinc, bismuth) solder can also be used.

0.3mm X 100g	0.6mm X 100g	1.0mm X 100g
		

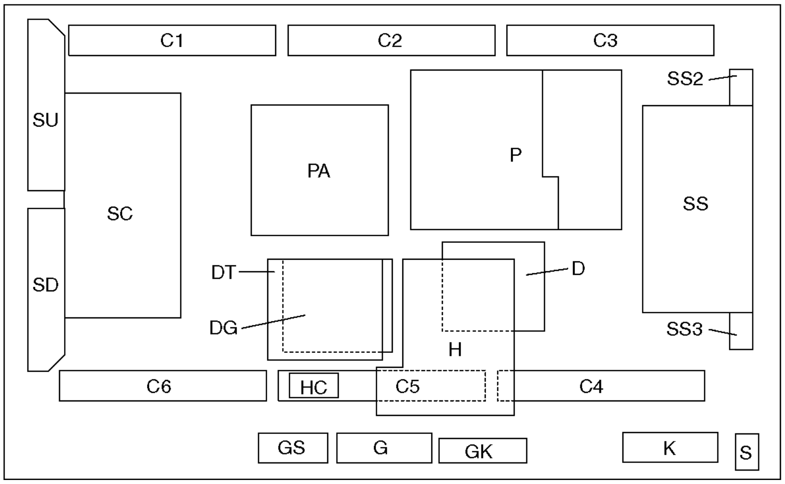
5 Service Hint

Remove the Back Cover



Remove:
5 screws (○) XYN4+F10FJK
6 screws (●) XYN4+F30FJK
10 screws (□) XTB4+12GFJK
19 screws (△) THEL0429

Service Position



Board Name	Function	Board Name	Function
P	Power Supply	C1	Data Driver (Upper Right)
PA	DC-DC Converter Speaker out, Audio AMP, Fan Control	C2	Data Driver (Upper Center)
		C3	Data Driver (Upper Left)
H	AV Terminal, AV Switch	C4	Data Driver (Lower Left)
DG	Digital Signal Processor, Micom, HDMI Interface	C5	Data Driver (Lower Center)
DT	ATSC Interface	C6	Data Driver (Lower Right)
D	Format Converter, Plasma AI, Sub-Field Processor	SC	Scan Drive
GS	SD Card Slot	SU	Scan out (Upper)
K	Remote receiver, Power LED	SD	Scan out (Lower)
S	Power Switch	SS	Sustain Drive
G	Front Terminal	SS2	Sustain Connector (Upper)
GK	Key Switch	SS3	Sustain Connector (Lower)
HC	Jig Connection		

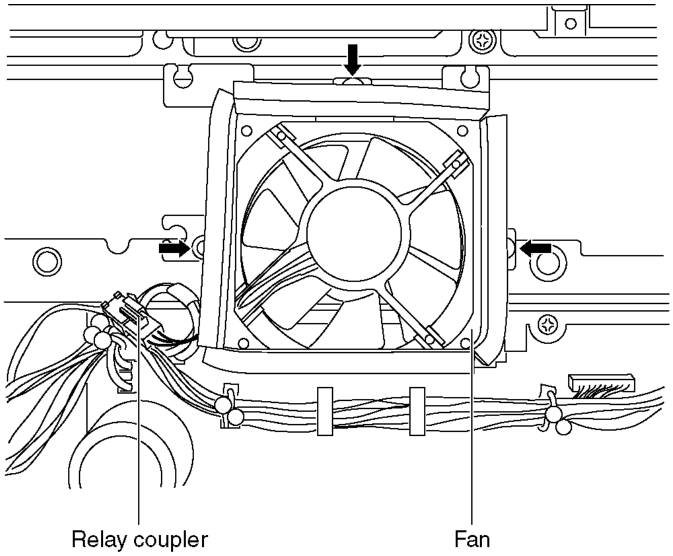
6 Plasma panel replacement method

6.1. Remove the Back cover

1. See Service Hint (Section 5)

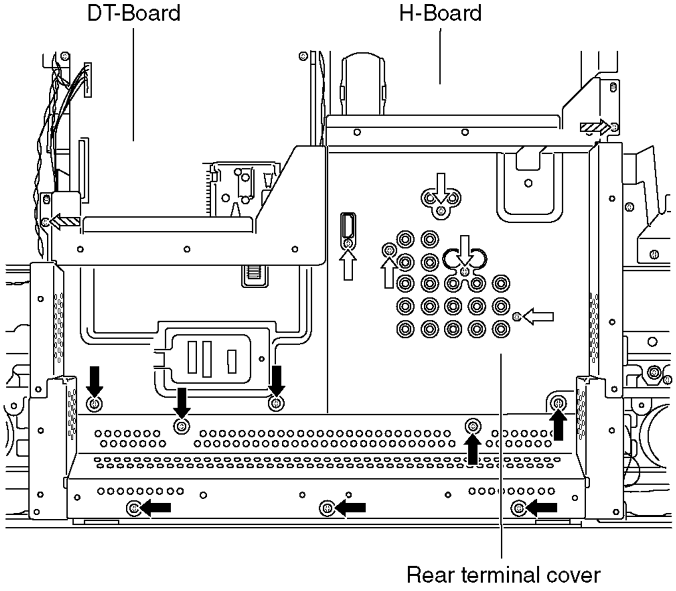
6.2. Remove the fan

1. Disconnect the relay couplers.
2. Remove the screws (×3 ➡ each) and remove the fans.


Relay coupler
Fan

6.3. Remove the rear terminal cover

1. Remove the screws (×8 ➡, ×5 ⇨, ×2 ⇛).
2. Remove the rear terminal cover.

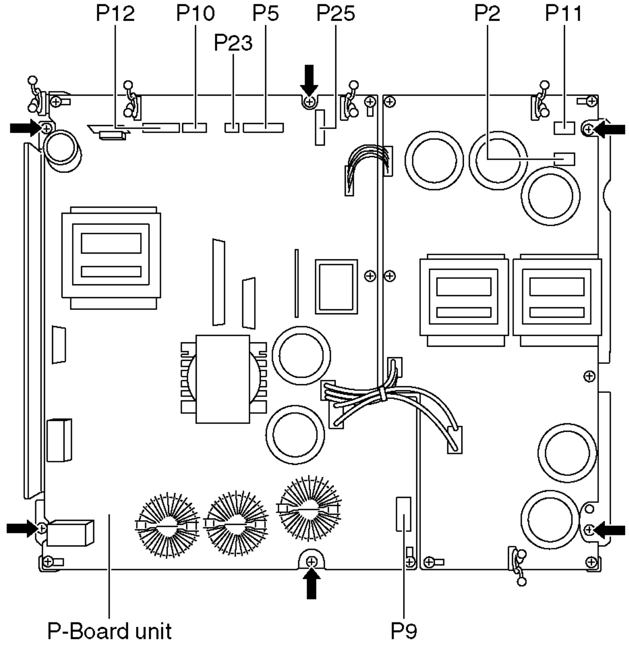

DT-Board
H-Board
Rear terminal cover

6.4. Remove the P-Board

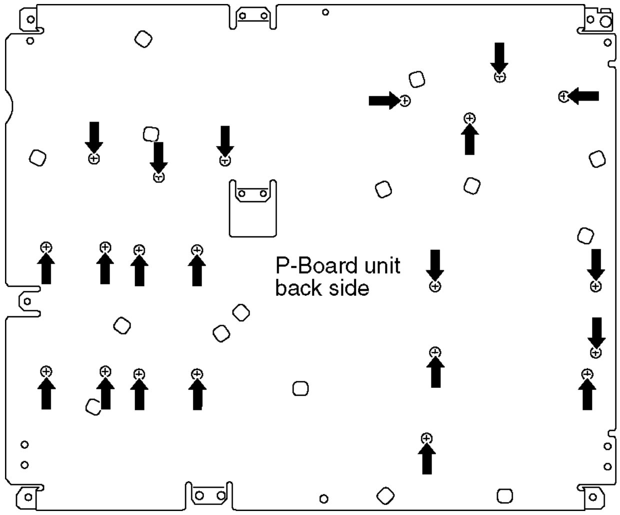
Caution:

To remove P.C.B. wait 1 minute after power was off for discharge from electrolysis capacitors.

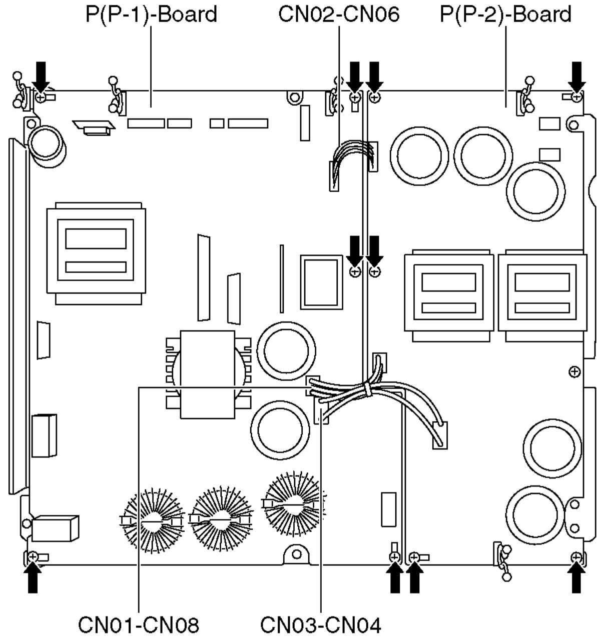
1. Disconnect the couplers (P2, P5, P9, P10, P11, P12, P23 and P25).
2. Remove the screws (×6 ➡) and remove the P-Board unit.


P12
P10
P23
P5
P25
P2
P11
P-Board unit
P9

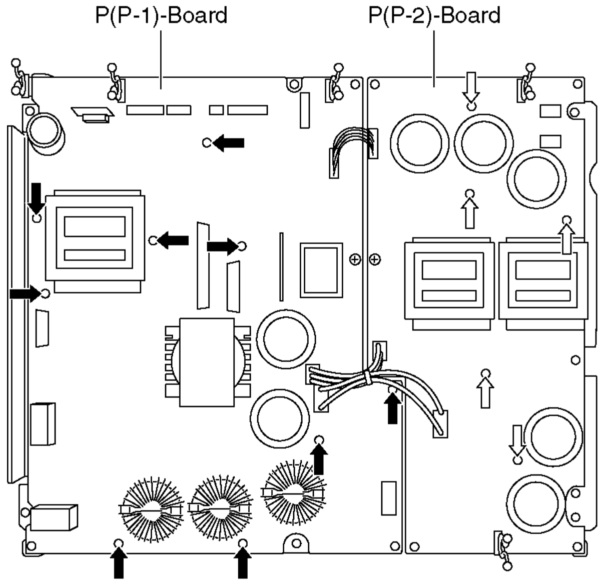
3. Remove the screws (×21 ➡) on the back side.


P-Board unit
back side

4. Disconnect the couplers (CN01-CN08, CN02-CN06 and CN03-CN04).
5. Remove the screws (×10 ➡).

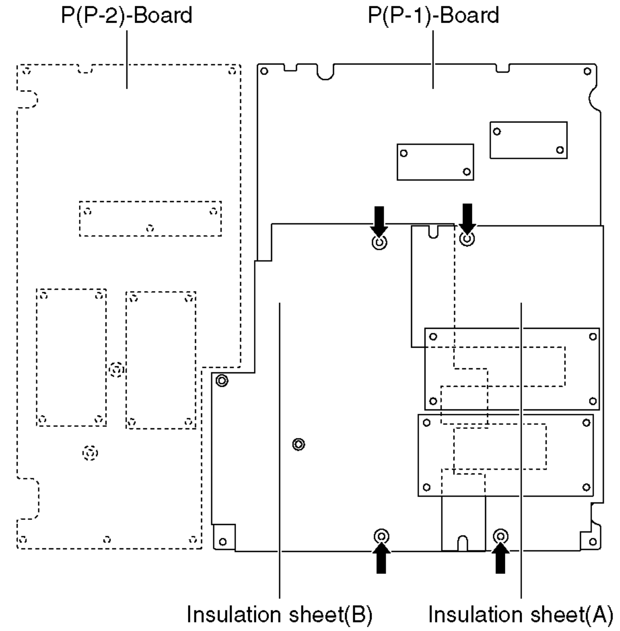

P(P-1)-Board
CN02-CN06
P(P-2)-Board
CN01-CN08
CN03-CN04

6. Remove the molding props (×9 ➡).
7. Remove the P(P-1)-Board.
8. Remove the molding props (×5 ⇨).
9. Remove the P(P-2)-Board.

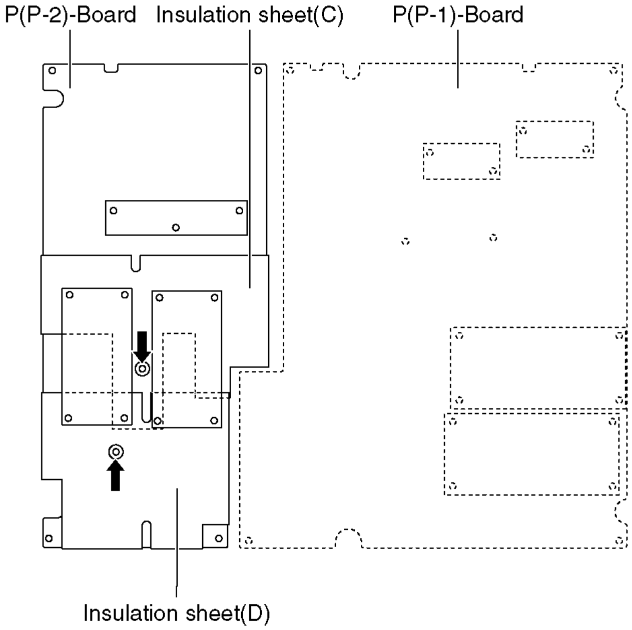

P(P-1)-Board
P(P-2)-Board

Note:

When assembling the P(P-1)-Board and the P(P-2)- Board, the position of each hole of the insulation sheets(A, B, C, D) is set to the position of each hole of the P(P-1)-Board and the P(P-2)-Board and then assemble them. (➡ marks indicate setting positions.)


P(P-2)-Board
P(P-1)-Board
Insulation sheet(B)
Insulation sheet(A)

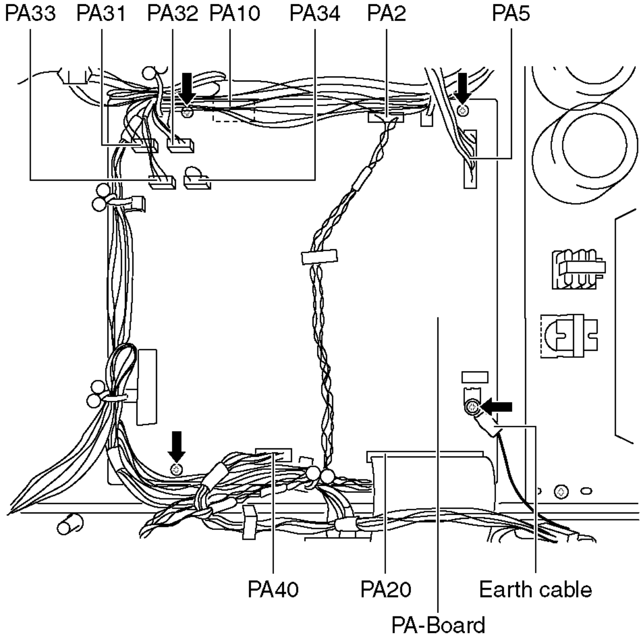
The back side of the P(P-1)-Board


P(P-2)-Board
Insulation sheet(C)
P(P-1)-Board
Insulation sheet(D)

The back side of the P(P-2)-Board

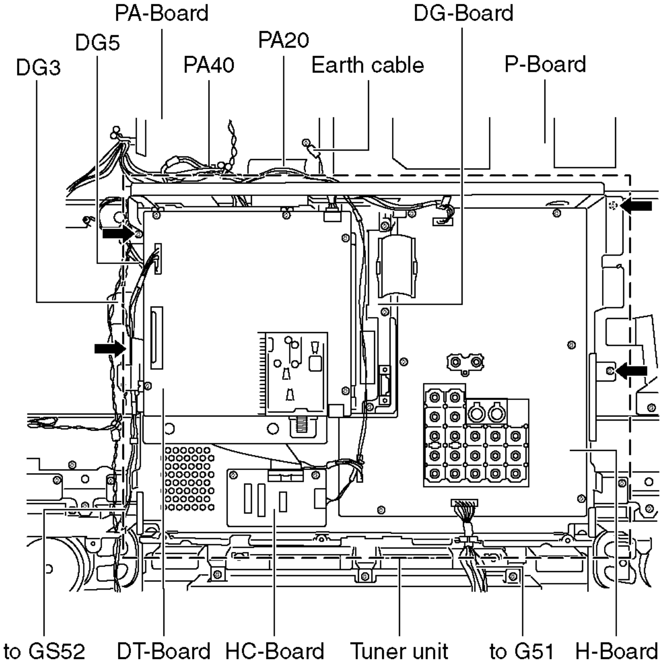
6.5. Remove the PA-Board

1. Unlock the cable clampers to free the cable.
2. Disconnect the couplers (PA2, PA5, PA10, PA31, PA32, PA33, PA34 and PA40).
3. Disconnect the flexible cable (PA20).
4. Remove the screws (×4 ➡) and remove the earth cable.
5. Remove the PA-Board.


PA33
PA31
PA32
PA10
PA34
PA2
PA5
PA40
PA20
Earth cable
PA-Board

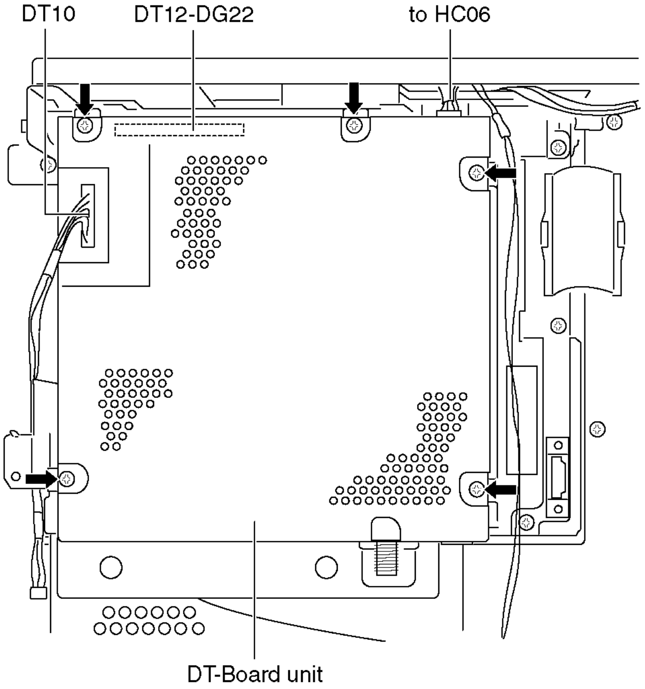
6.6. Remove the tuner unit

1. Unlock the cable clampers to free the cable.
2. Disconnect the couplers (DG5, G51, GS52, PA40 and earth cable).
3. Disconnect the flexible cables (DG3 and PA20).
4. Remove the screws (×4 ➡) remove the tuner unit.

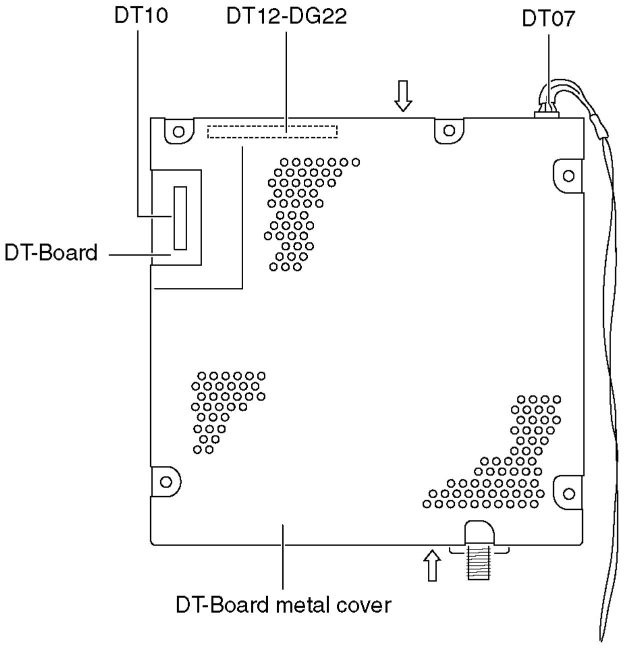

PA-Board
DG-Board
DG5
PA20
DG3
PA40
Earth cable
P-Board
to GS52
DT-Board
HC-Board
Tuner unit
to G51
H-Board

6.7. Remove the DT-Board

1. Unlock the cable clampers to free the cable.
2. Disconnect the couplers (HC06 and DT10).
3. Remove the screws (×5) remove the DT-Board unit.
   (Be careful the coupler (DT12-DG22) when remove the DT-Board unit.)

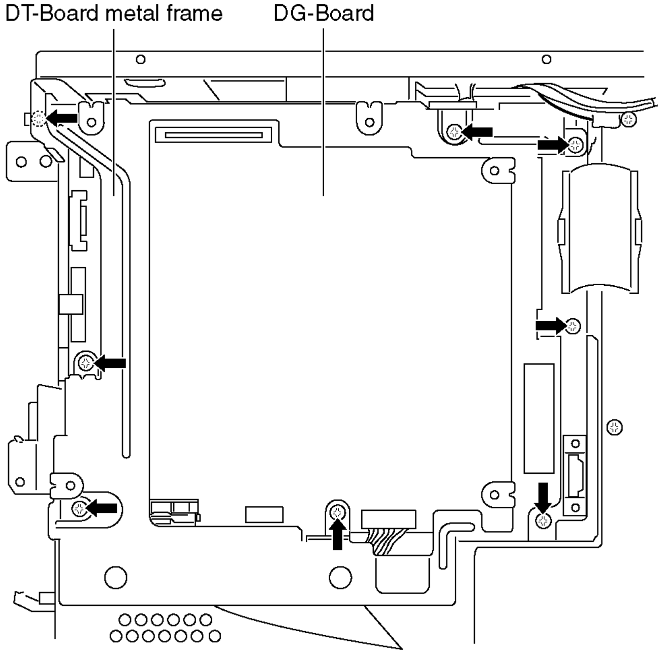

DT10
DT12-DG22
to HC06
DT-Board unit

4. Disconnect the coupler (DT07).
5. Remove the screws (×2).
6. Remove the DT-Board metal cover and DT-Board.

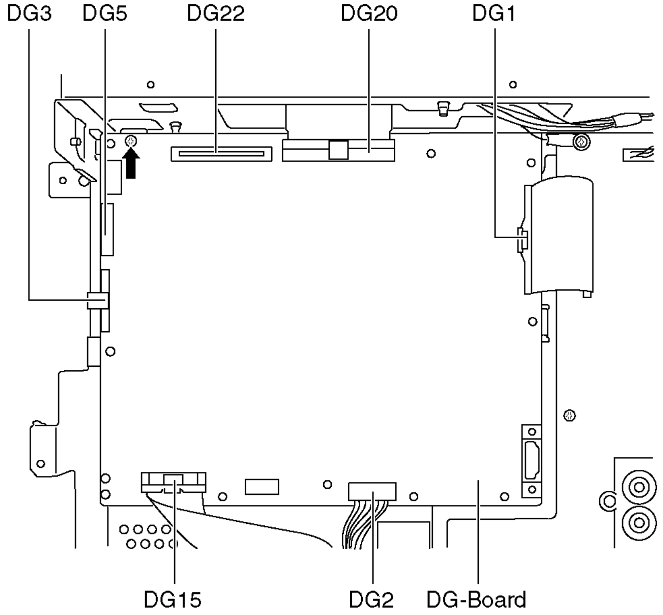

DT10
DT12-DG22
DT07
DT-Board
DT-Board metal cover

6.8. Remove the DG-Board

1. Remove the DT-Board. (See section 6.7.)
2. Remove the screws (×8 ➡) and remove the DT-Board metal frame.

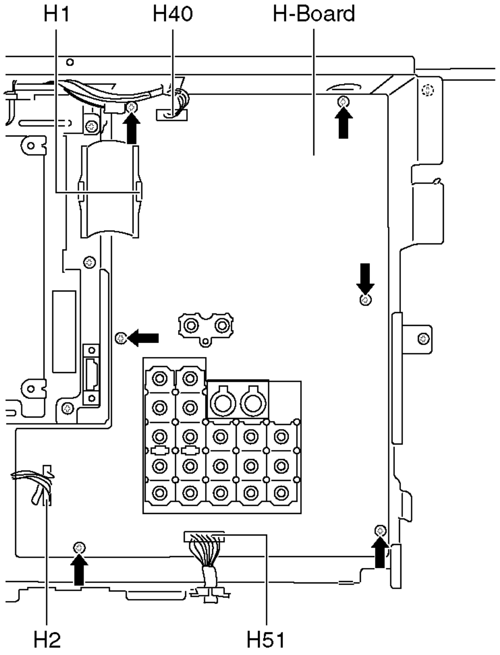

DT-Board metal frame
DG-Board

3. Disconnect the coupler (DG2).
4. Disconnect the flexible cables (DG1, DG15 and DG20).
5. Remove the screw (×1 ➡) remove the DG-Board.


DG3
DG5
DG22
DG20
DG1
DG15
DG2
DG-Board

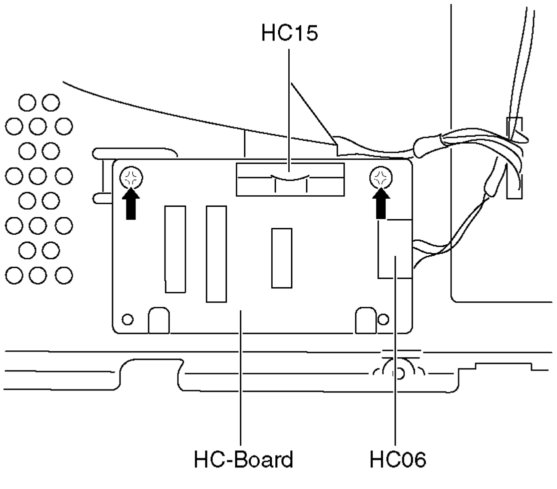
6.9. Remove the H-Board

1. Unlock the cable clampers to free the cable.
2. Disconnect the couplers (H2, H40 and H51).
3. Disconnect the flexible cable (H1).
4. Remove the screws (×6 ➡) and remove the H-Board.


H1
H40
H-Board
H2
H51

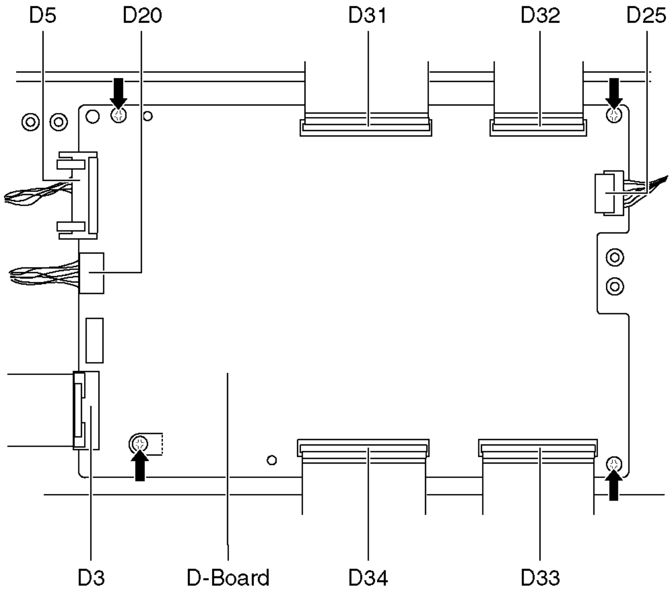
6.10. Remove the HC-Board

1. Disconnect the couple (HC06).
2. Disconnect the flexible cable (HC15).
3. Remove the screws (×2 ➡) and remove the HC-Board.


HC15
HC-Board
HC06

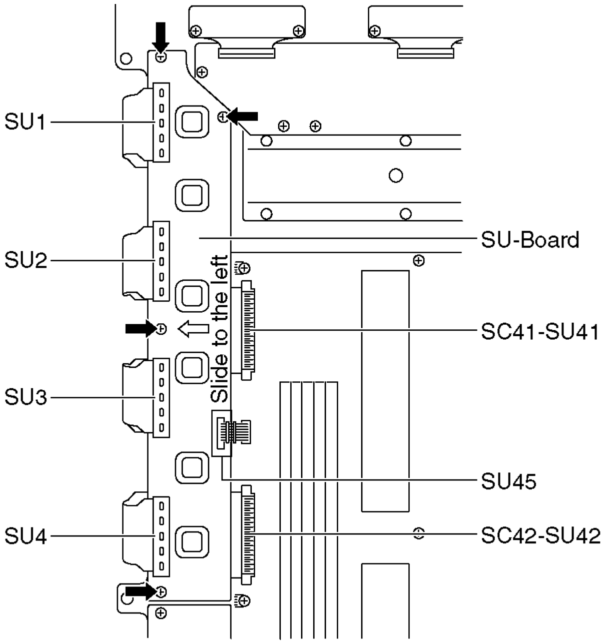
6.11. Remove the D-Board

1. Remove the tuner unit. (See section 6.6.)
2. Disconnect the couplers (D5, D20 and D25).
3. Disconnect the flexible cables (D3, D31, D32, D33 and D34).
4. Remove the screws (×4 ➡) and remove the D-Board.


D5
D20
D31
D32
D25
D3
D-Board
D34
D33

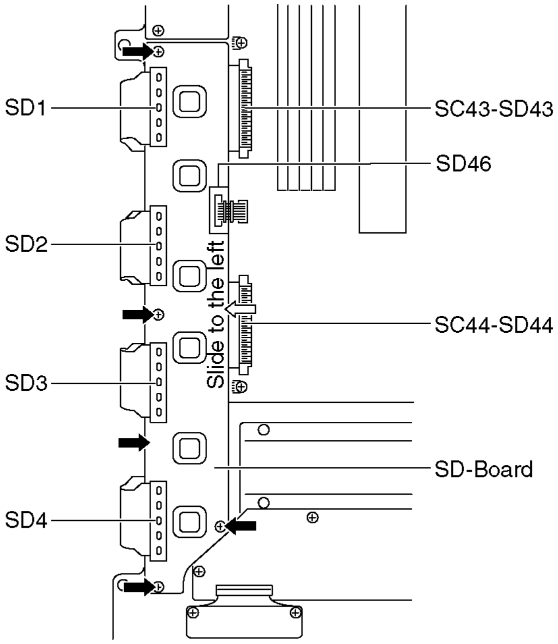
6.12. Remove the SU-Board

1. Remove the screws (×4 ➡).
2. Remove the flexible cables (SU1, SU2, SU3 and SU4) and remove the bridge connector (SU45).
3. Slide the SU-Board to the left to disconnect from couplers (SC41-SU41 and SC42-SU42) on the SC-Board and remove the SU-Board.


SU1
SU2
SU3
SU4
Slide to the left
SU-Board
SC41-SU41
SU45
SC42-SU42

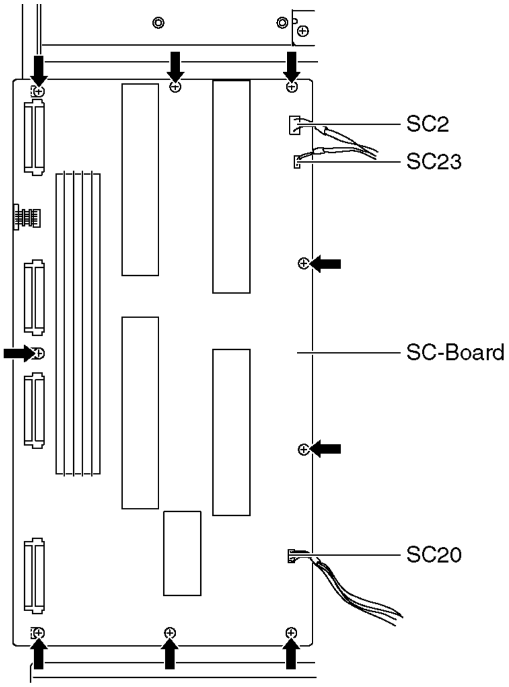
6.13. Remove the SD-Board

1. Remove the screws (×4 ➡).
2. Remove the flexible cables (SD1, SD2, SD3 and SD4) and remove the bridge connector (SD46).
3. Slide the SD-Board to the left to disconnect from couplers (SC43-SD43 and SC44-SD44) on the SC-Board and remove the SD-Board.


SD1
SC43-SD43
SD46
SD2
Slide to the left
SC44-SD44
SD3
SD-Board
SD4

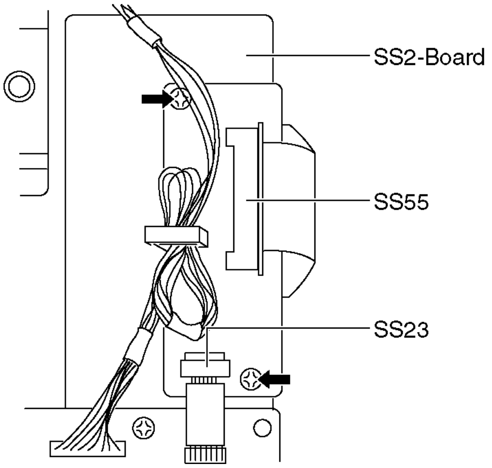
6.14. Remove the SC-Board

1. Disconnect the couplers (SC2, SC20 and SC23).
2. Remove the screws (×10 ➡) and remove the SC-Board.


SC2
SC23
SC-Board
SC20

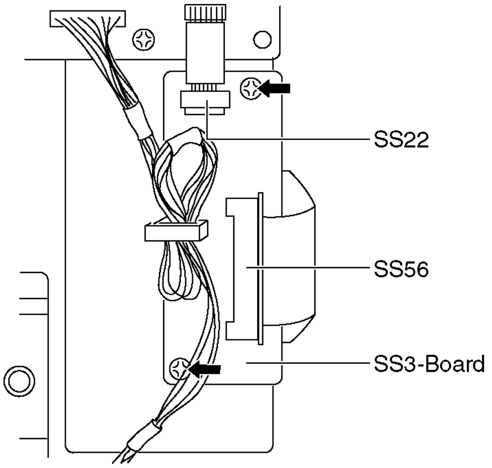
6.15. Remove the SS2-Board

1. Unlock the cable clamper to free the cable.
2. Disconnect the coupler (SS23) and disconnect the flexible cable (SS55).
3. Remove the screws (×2 ➡) and remove the SS2-Board.


SS2-Board
SS55
SS23

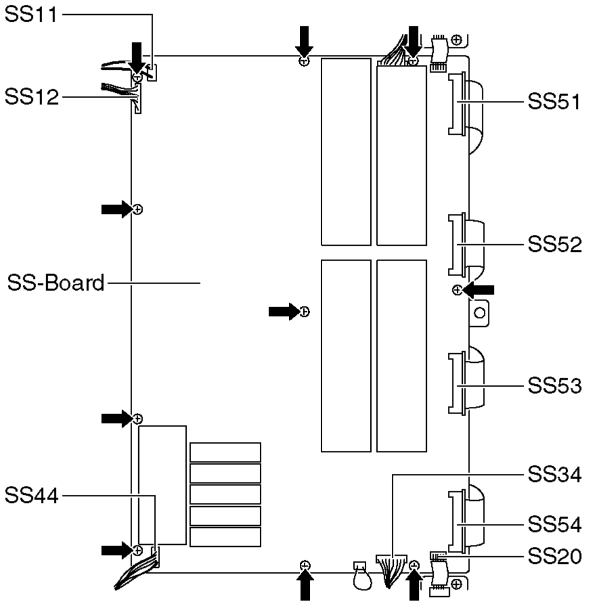
6.16. Remove the SS3-Board

1. Unlock the cable clamper to free the cable.
2. Disconnect the coupler (SS22) and disconnect the flexible cable (SS56).
3. Remove the screws (×2 ➡) and remove the SS3-Board.


SS22
SS56
SS3-Board

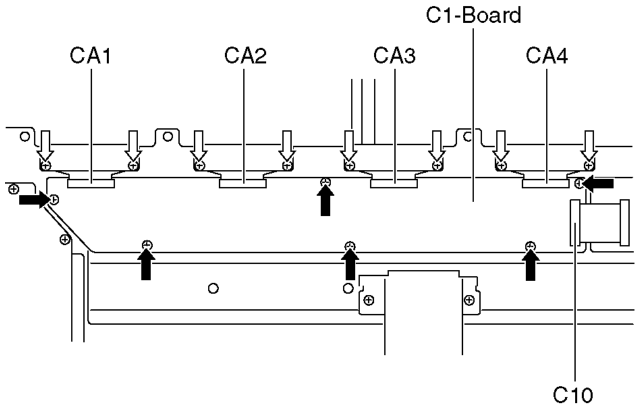
6.17. Remove the SS-Board

1. Remove the SS2-Board and SS3-Board. (See section 6.15. and 6.16)
2. Disconnect the couplers (SS11, SS12, SS20, SS34 and SS44).
3. Disconnect the flexible cables (SS51, SS52, SS53 and SS54).
4. Remove the screws (×10 ➡) and remove the SS-Board.


SS11
SS12
SS-Board
SS44
SS51
SS52
SS53
SS34
SS54
SS20

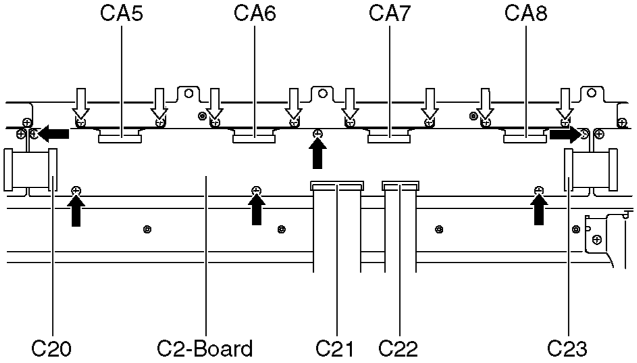
6.18. Remove the C1-Board

1. Remove the flexible cables holder fastening screws (×8 ⇨).
2. Disconnect the flexible cables (CA1, CA2, CA3 and CA4).
3. Disconnect the flexible cable (C10).
4. Remove the screws (×5 ➡) and remove the C1-Board.


C1-Board
CA1
CA2
CA3
CA4
C10

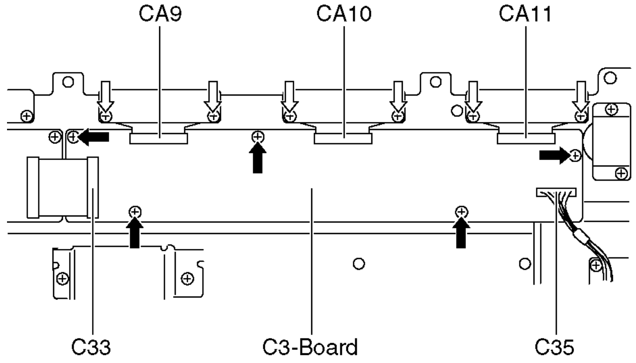
6.19. Remove the C2-Board

1. Remove the flexible cables holder fastening screws (×8 ⇨).
2. Disconnect the flexible cables (CA5, CA6, CA7 and CA8).
3. Disconnect the flexible cables (C20, C21, C22 and C23).
4. Remove the screws (×6 ➡) and remove the C2-Board.


CA5
CA6
CA7
CA8
C20
C2-Board
C21
C22
C23

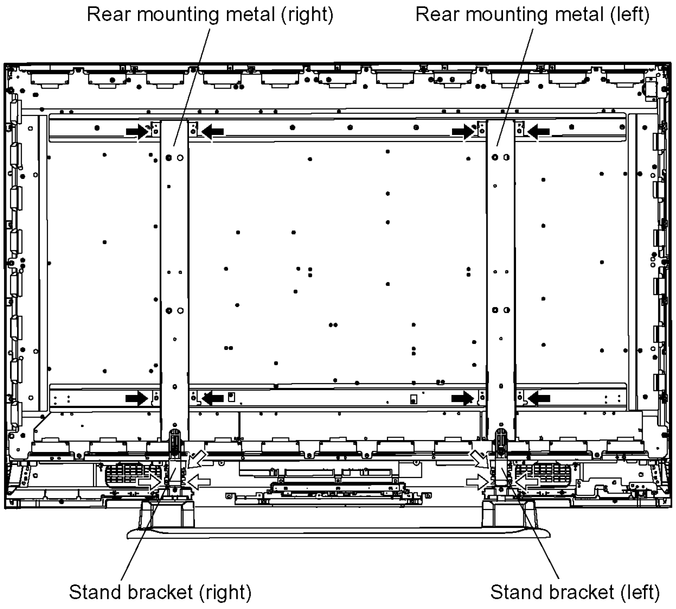
6.20. Remove the C3-Board

1. Remove the flexible cables holder fastening screws (×6 ⇨).
2. Disconnect the flexible cables (CA9, CA10 and CA11).
3. Disconnect the flexible cable (C33).
4. Disconnect the coupler (C35).
5. Remove the screws (×5 ➡) and remove the C3-Board.

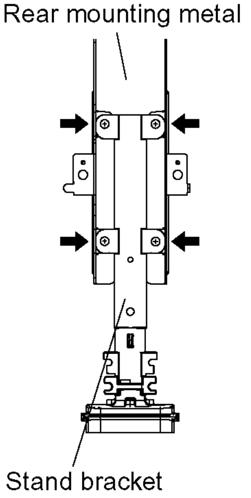

CA9
CA10
CA11
C33
C3-Board
C35

6.21. Remove the stand brackets and rear mounting metals

1. Remove the plasma panel section from the servicing stand and lay on a fiat surface such as a table (covered) with the plasma panel surface facing downward.
2. Remove the stand brackets (left, right) fastening screws (×3 ⇨ each).
3. Remove the rear mounting metals (left, right) fastening screws (×4 ➡ each).
4. Remove the stand brackets and rear mounting metals.

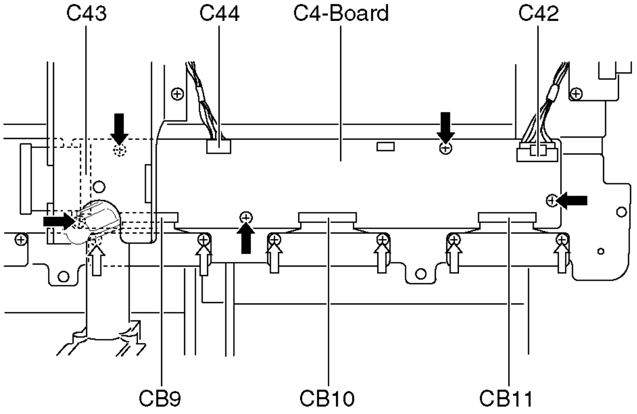

Rear mounting metal (right)
Rear mounting metal (left)
Stand bracket (right)
Stand bracket (left)

5. Remove the fastening screws (×4 ➡ each).
6. Remove the stand brackets from rear mounting metals.


Rear mounting metal
Stand bracket

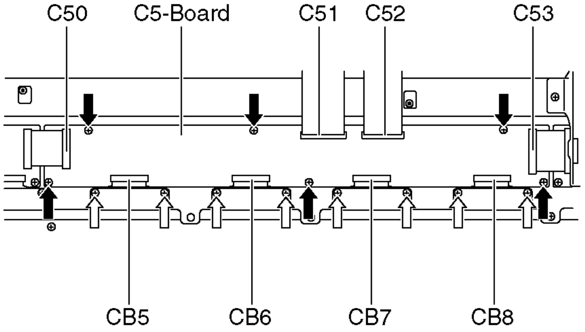
6.22. Remove the C4-Board

1. Remove the flexible cables holder fastening screws (×6 ⇨)
2. Disconnect the flexible cables (CB9, CB10 and CB11).
3. Disconnect the flexible cable (C43).
4. Disconnect the couplers (C42 and C44).
5. Remove the screws (×5 ➡) and remove the C4-Board.


C43
C44
C4-Board
C42
CB9
CB10
CB11

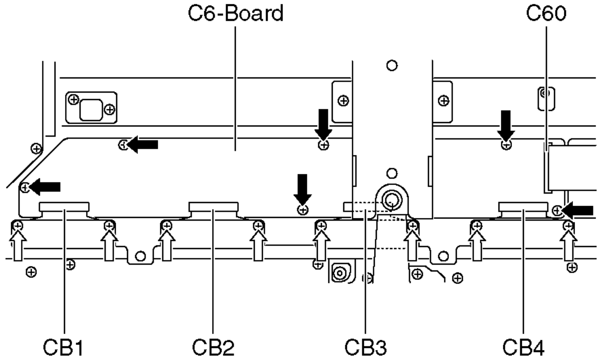
6.23. Remove the C5-Board

1. Remove the flexible cables holder fastening screws (×8 ⇨).
2. Disconnect the flexible cables (CB5, CB6, CB7 and CB8).
3. Disconnect the flexible cables (C50, C51, C52 and C53).
4. Remove the screws (×6 ➡) and remove the C5-Board.


C50
C5-Board
C51
C52
C53
CB5
CB6
CB7
CB8

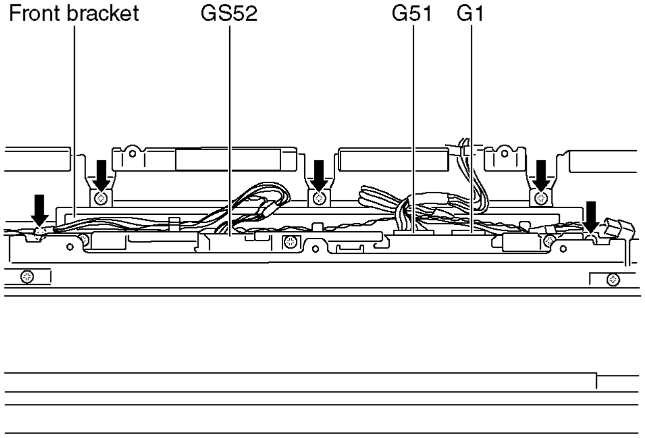
6.24. Remove the C6-Board

1. Remove the flexible cables holder fastening screws (×8 ⇨).
2. Disconnect the flexible cables (CB1, CB2, CB3 and CB4).
3. Disconnect the flexible cable (C60).
4. Remove the screws (×6 ➡) and remove the C6-Board.


C6-Board
C60
CB1
CB2
CB3
CB4

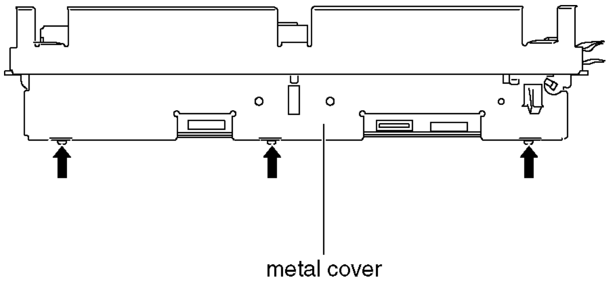
6.25. Remove the front bracket

1. Unlock the cable clampers to free the cable.
2. Disconnect the couplers (GS52, G1 and G51).
3. Remove the screws (×5 ➡) and remove the front bracket.

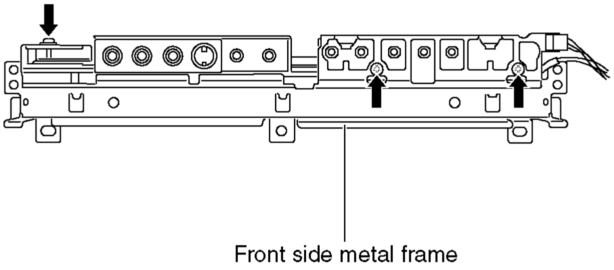

Front bracket
GS52
G51
G1

6.26. Remove the G-Board, GK-Board and GS-Board

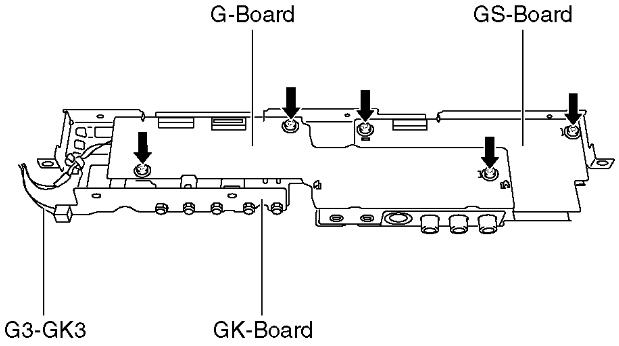
1. Remove the front bracket. (See section 6.25.)
2. Remove the screws (×3 ➡) and remove the metal cover.


metal cover

3. Remove the screws (×3 ➡) from front side and remove the front side metal frame.

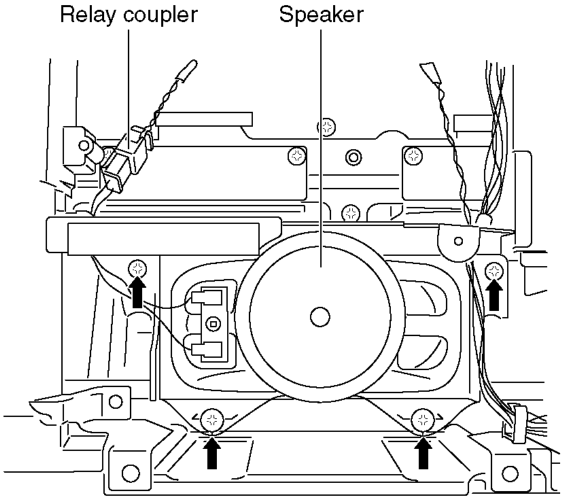

Front side metal frame

4. Remove the screws (×5 ➡) and disconnect the couplers (G3-GK3).
5. Remove the G-Board, GK-Board and GS-Board.


G-Board
GS-Board
G3-GK3
GK-Board

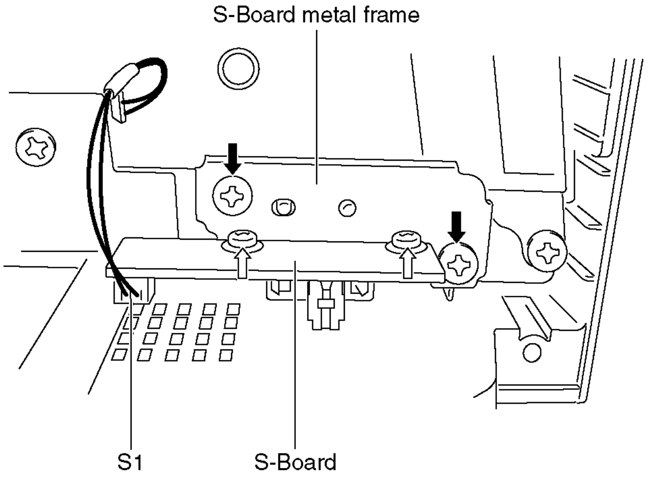
6.27. Remove the speaker L, R

1. Remove the screws (×4 ➡ each) and remove the speaker L, R.


Relay coupler
Speaker

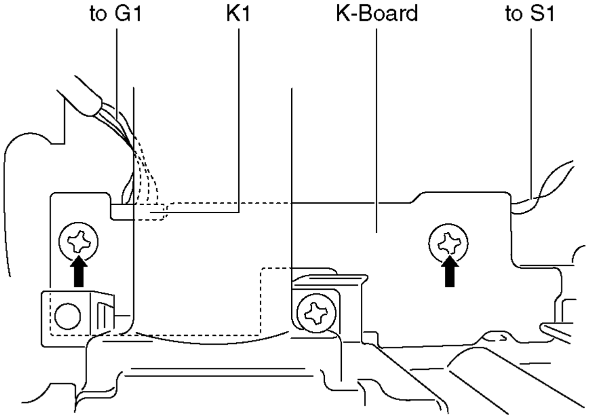
6.28. Remove the S-Board

1. Disconnect the coupler (S1).
2. Remove the screws (×2 ➡) and remove the S-Board metal frame.
3. Remove the screws (×2 ⇨) and remove the S-Board.


S-Board metal frame
S1
S-Board

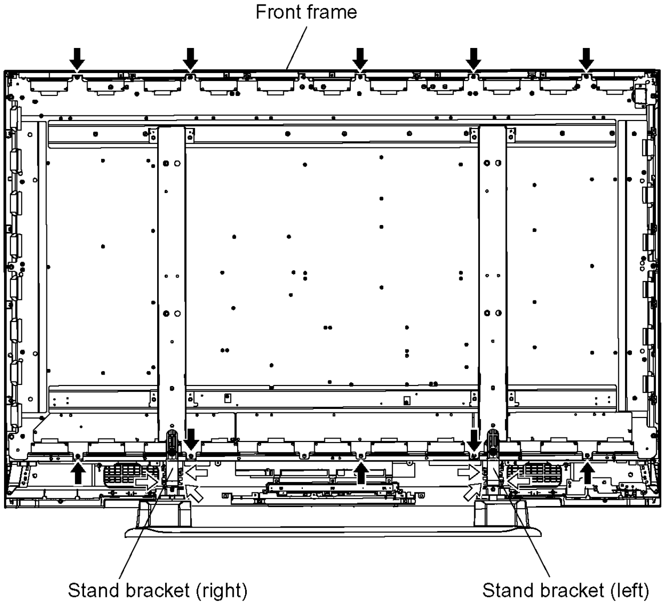
6.29. Remove the K-Board

1. Unlock the cable clampers to free the cable.
2. Disconnect the couplers (G1 and S1). (See section 6.25. and 6.28.)
3. Remove the screws (×2 ➡) and remove the K-Board.

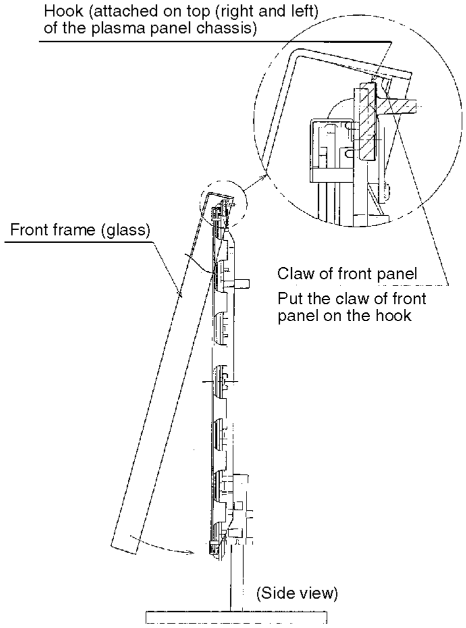

to G1
K1
K-Board
to S1

6.30. Remove the Plasma panel section from the Front frame (glass)

1. Remove the front frame and the plasma panel fastening screws (×10 ➡).
2. Remove the front frame and the stand brackets fastening screws (×6 ⇨).


Front frame
Stand bracket (right)
Stand bracket (left)

3. For leaving the plasma panel from the front frame, pull the bottom of the front frame forward, lift, and remove.


Hook (attached on top (right and left) of the plasma panel chassis)
Front frame (glass)
Claw of front panel
Put the claw of front panel on the hook
(Side view)

6.31. Replace the plasma panel (finished)

1. Place the new plasma panel (finished) on the flat surface of the table (covered by a soft cloth), with the plasma panel surface facing downward.
2. Attach the C1, C2, C3, C4, C5 and the C6-Board, connect the flexible cables (×22) from the Plasma panel to the C1, C2, C3, C4, C5 and the C6-Board, and fit the flexible cable holders.
3. Attach the Hooks (left, right) and fit the stand brackets (L, R) to the new plasma panel.
4. Place the plasma panel section on the servicing stand.
5. Attach the front frame and each P.C.Board and so on, to the new plasma panel.

*** When fitting the front frame, be careful to allow any debris, dust or handling residue to remain between the front glass and plasma panel.**

7 Caution statement

7.1. Caution statement.

Caution:

Please confirm that all flexible cables are assembled correctly.

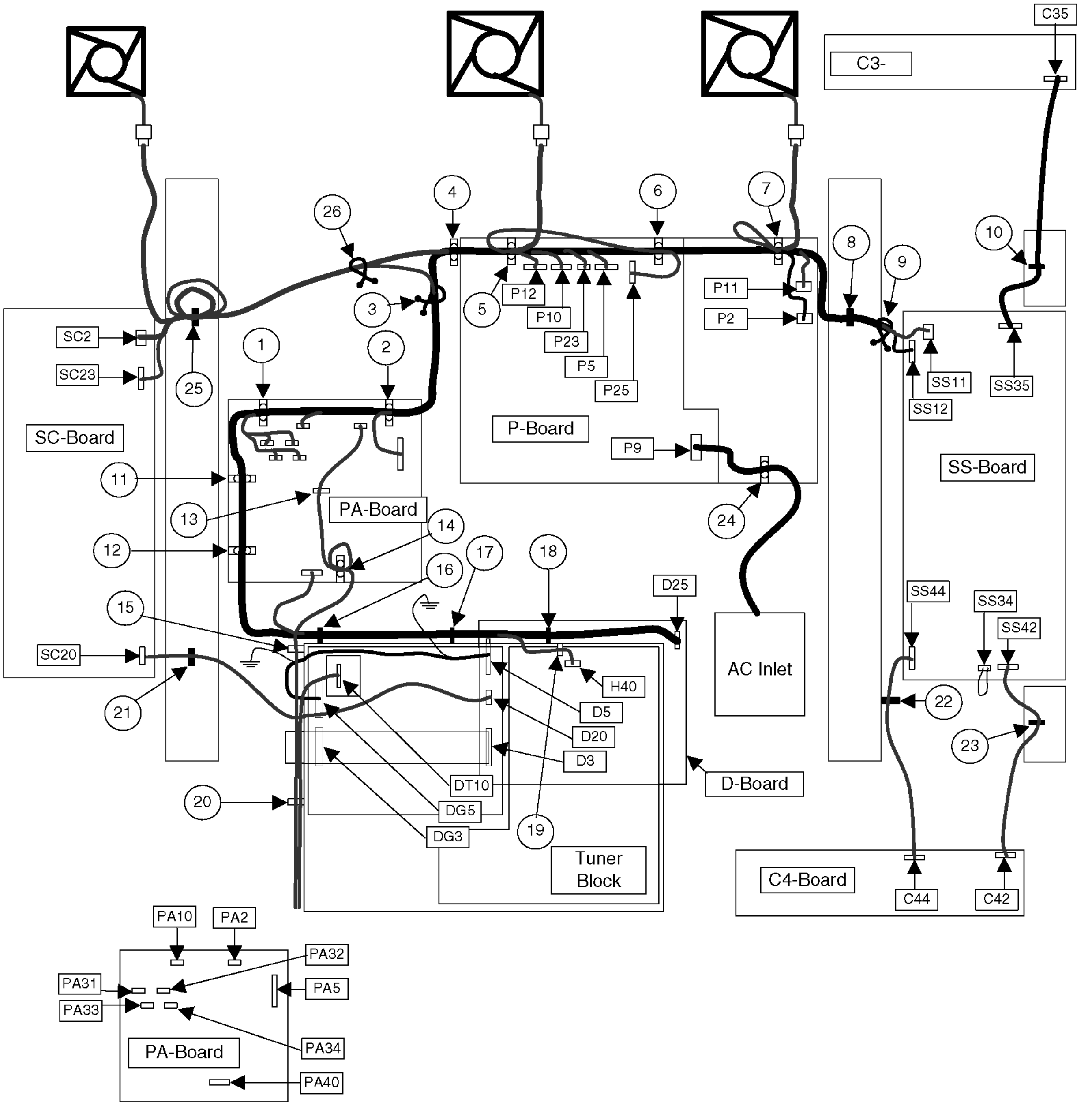
Also make sure that they are locked in the connectors.

Verify by giving the flexible cables a very slight pull.

8 Location of Lead Wiring

8.1. Lead of Wiring (1)-1

The wire is dressed as shown in figure.

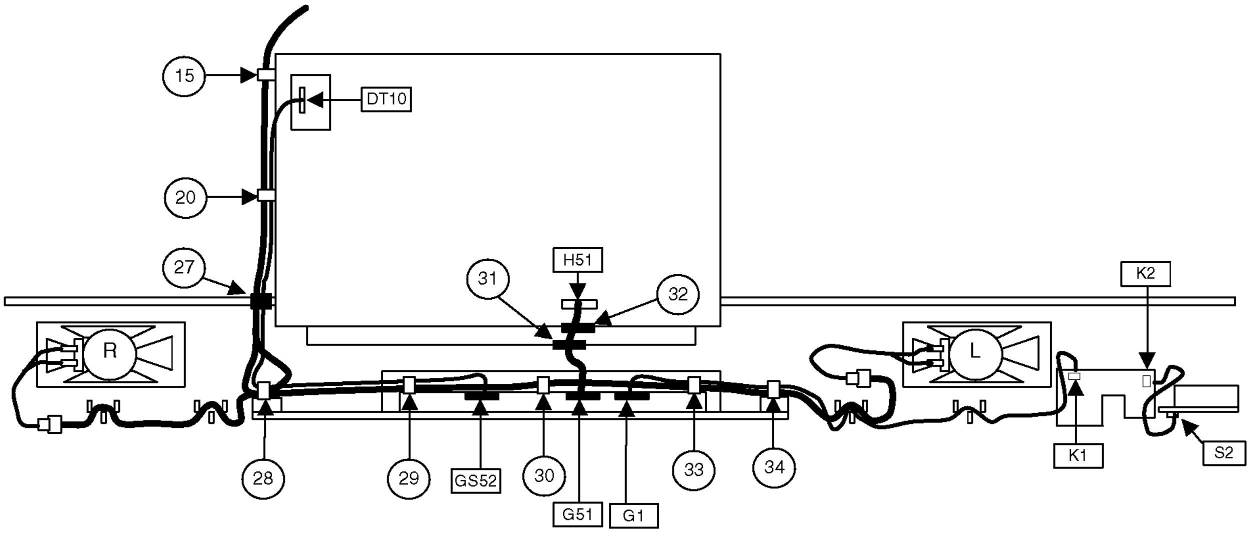

C35
C3-
26
4
6
7
8
9
10
3
5
P12
P10
P23
P5
P25
P11
P2
SS11
SS12
SS35
SC2
SC23
25
1
2
SC-Board
P-Board
P9
SS-Board
11
13
PA-Board
14
24
12
17
18
16
15
D25
SS44
SS34
SS42
AC Inlet
SC20
H40
21
D5
22
D20
23
D3
DT10
D-Board
20
DG5
DG3
19
Tuner Block
C4-Board
C44
C42
PA10
PA2
PA32
PA31
PA5
PA33
PA34
PA-Board
PA40

8.2. Lead of Wiring (1)-2

Connector No.	Wire clamper No.																									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
PA31 - FAN1	O	O	O																						O	O
PA32 - FAN2	O	O	O	O	O																					
PA33 - FAN3	O	O	O	O	O	O	O																			
PA10 - P10		O	O	O	O																					
PA2 - SP R													O	O	O					O						
PA2 - SP L													O	O	O					O						
PA5 - P5		O	O	O	O																					
P11 - SS11							O	O	O																	
P2 - SC2				O	O	O	O																		O	O
P12 - SS12					O	O	O	O	O																	
P23 - SC23				O	O																				O	O
P25 - D25	O	O	O	O	O						O	O				O	O	O								
D5 - DG5																										
AC IN - P9																								O		
SC20 - D20																					O					
PA40 - H40																O	O		O							
SS44 - C44																						O				
SS42 - C42																							O			
SS35 - C35										O																
SS34 JUMPER																										

8.3. Lead of Wiring (2)

The wire is dressed as shown in figure.


15
DT10
20
27
31
H51
32
K2
R
L
28
29
GS52
30
G51
G1
33
34
K1
S2

Connector No.	Wire clamper No.											
	15		20		27	28	29	30	31	32	33	34	
G1 - K1											O	O	
K2 - S2													
PA2 - SP R	O		O		O	O							
PA2 - SP L	O		O		O	O	O	O			O	O	
DT10 - GS52			O		O	O	O						
G51 - H51									O	O			

9 Self-check Function

Use the self-check function to test the unit.

1. Checking the IIC bus lines
2. Power LED Blinking timing

9.1. Check of the IIC bus lines

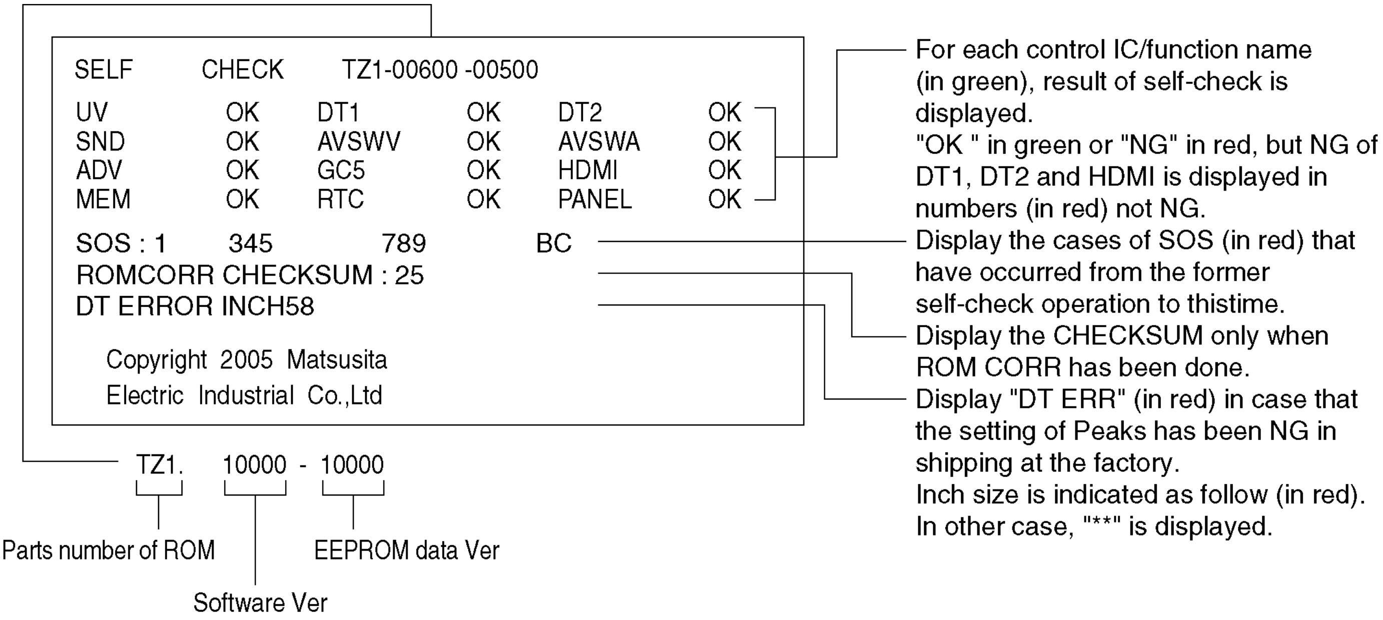
9.1.1. How to access

Produce TV reception screen, and while pressing [VOLUME (-)] button on the main unit, press [OK] button on the remote control for more than 3 seconds.

9.1.2. Exit

Disconnect the AC cord from wall outlet.

9.1.3. Screen display



```
SELF        CHECK       TZ1-00600 -00500
UV          OK     DT1       OK     DT2        OK
SND         OK     AVSWV     OK     AVSWA      OK
ADV         OK     GC5       OK     HDMI       OK
MEM         OK     RTC       OK     PANEL      OK
SOS : 1      345         789          BC
ROMCORR CHECKSUM : 25
DT ERROR INCH58

   Copyright  2005  Matsusita
   Electric  Industrial  Co.,Ltd
```

For each control IC/function name (in green), result of self-check is displayed. "OK " in green or "NG" in red, but NG of DT1, DT2 and HDMI is displayed in numbers (in red) not NG.

Display the cases of SOS (in red) that have occurred from the former self-check operation to thistime.

Display the CHECKSUM only when ROM CORR has been done.

Display "DT ERR" (in red) in case that the setting of Peaks has been NG in shipping at the factory. Inch size is indicated as follow (in red). In other case, "**" is displayed.

Displayed NG of DT1, DT2 and HDMI in numbers (in red)

bit	DT1	DT2	HDMI
0	RDRAM	EEPROM Read	IIC address error
1	BOOT&FONT	EEPROM Write	EDIC CHECKSUM error
2	LAN (NIC)	Peaks	HDCP KEY Writing and CHECKSUM error
3	EEP SPECIFIC AREA	SID6	BKSV Error
4	1394ConfigROM	1394LSI	Robustness rule error
5	AKE CRM	TOTAL NIM TUNER (PEAKS)	NO USE (0 Fixed)
6	File Initialize	Extended SERIAL	NO USE (0 Fixed)
7	MAC Address	Video Encoder	NO USE (0 Fixed)

* NG indicating condition of UV is OR logic of NG of the Multi-sound-IC and NG of the UV tuner.

* In the causes that DT1 is NG, the communication between the tuning microcomputer and the Peaks can't be performed normally and then DT1 is placed in NG condition.

* The cause that DT2 goes into NG as follows below.
Peaks microcomputer accesses to the peripheral devices through IIC, and no response form devices are NG.
Peripheral devices: EEPROM, FRONT END and NTSC ENCODER

9.1.4. Check Point

Confirm the following parts if NG was displayed.

Display	Ref.No.	Description	Board
UV	TU8200	TV Tuner	DT-Board
DT1	IC8211	Front Processor	DT-Board
DT2	IC8240	HDMSL PEAKS_Lite	DT-Board
SND	IC2603	Sound Processor	H-Board
AVSWV	IC2601	Video SW	H-Board
AVSWA	IC2602	Audio SW	H-Board
ADV	IC4019	10Bits A/D	DG-Board
GC5	IC4037	GC5 Processor	DG-Board
HDMI	IC4026	HDMI I/F Reciever	DG-Board
MEM	IC1102	EEPROM	DG-Board
RTC	-	Real time clock	-
PANEL	IC9003	MICOM	D-Board

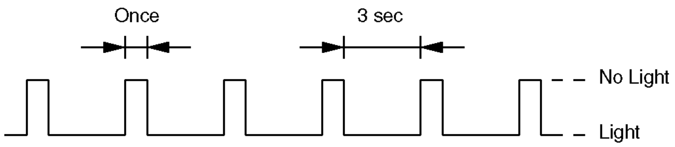
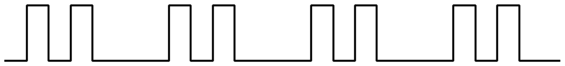
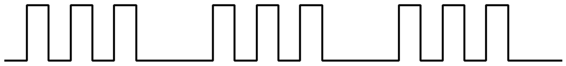
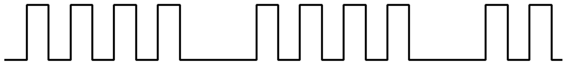
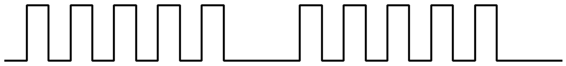
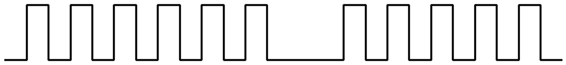
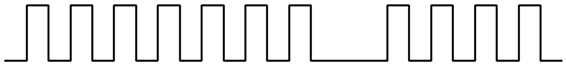
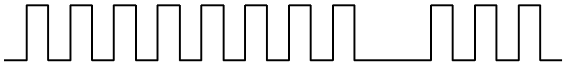
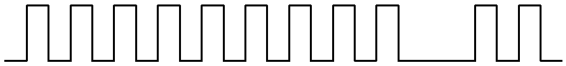
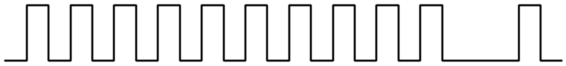
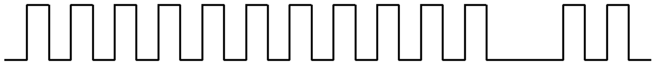
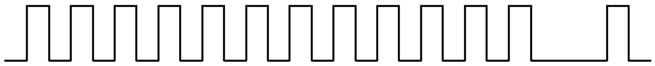
9.2. Power LED Blinking timing chart

1. Subject

   Information of LED Flashing timing chart.

2. Contents

   When an abnormality has occurred the unit, the protection circuit operates and reset to the stand by mode. At this time, the defective block can be identified by the number of blinkes of the Power LED on the front panel of the unit.

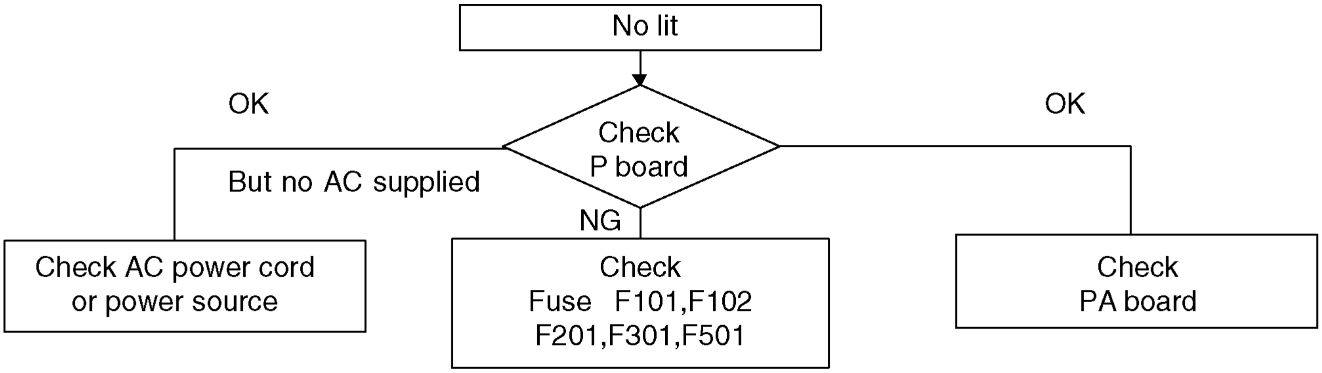
Blinking Times	Blinking timing	Contents	Check point
1		No particular check point	-
2		15V SOS	D-Board
3		3.3V SOS	D-Board
4		Power SOS	P-Board
5		5V SOS	D-Board
6		Driver SOS1 (SC Energy recovery circuit)	SU-Board SD-Board SC-Board
7		Driver SOS2 (SC floating voltage area)	SU-Board SD-Board SS-Board
8		Driver SOS3 (SS Energy recovery circuit)	SS-Board
9		Panel Status	-
10		PA SOS Tuner SOS	PA-Board H-Board
11		Fan SOS	Fan
12		Sound SOS	PA-Board

9.3. No Power

First check point

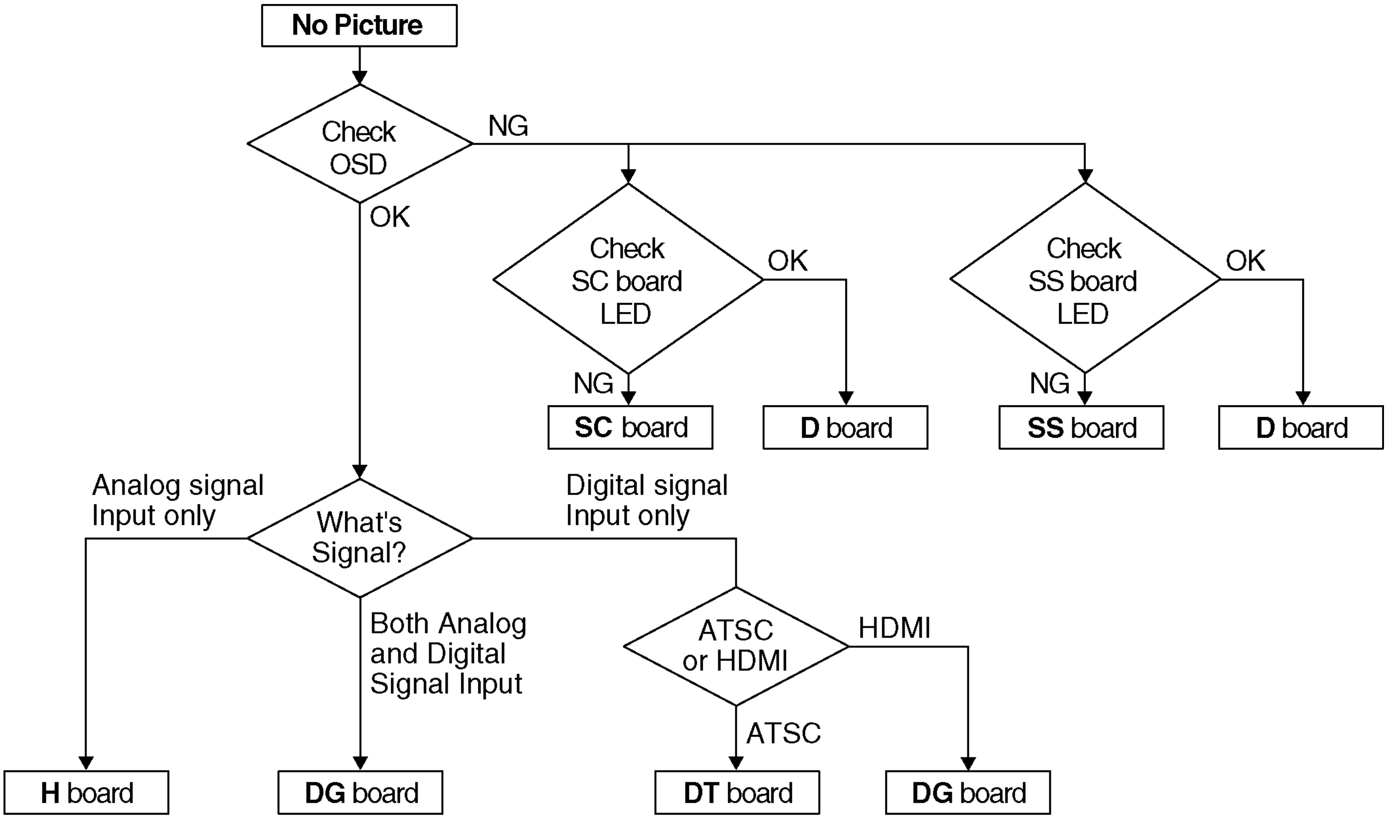
There are following 2 states of No Power indication by power LED.

1. No lit
2. Red is lit then turns red blinking a few seconds later. (See 9.2.)

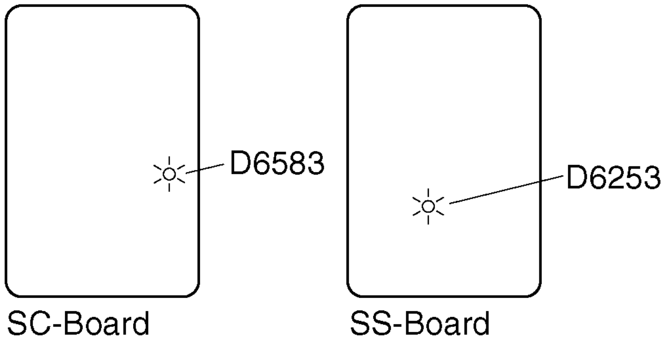


No lit
Check
P board
OK
But no AC supplied
NG
OK
Check AC power cord
or power source
Check
Fuse F101,F102
F201,F301,F501
Check
PA board

9.4. No Picture

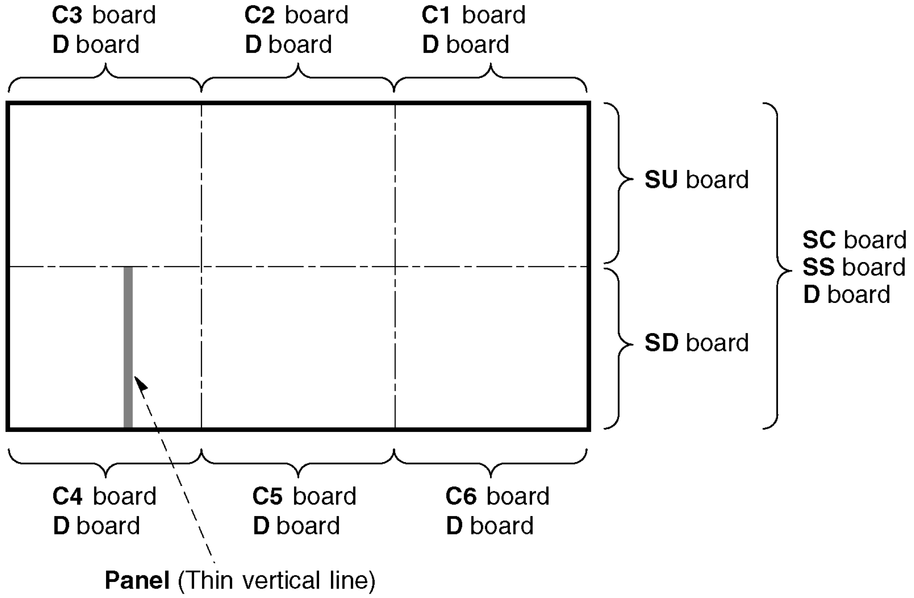

No Picture
Check OSD
NG
OK
Check SC board LED
OK
NG
SC board
D board
Check SS board LED
OK
NG
SS board
D board
Analog signal Input only
What's Signal?
Digital signal Input only
Both Analog and Digital Signal Input
ATSC or HDMI
HDMI
ATSC
H board
DG board
DT board
DG board

Drive circuits LED indicator


D6583
D6253
SC-Board
SS-Board

9.5. Local screen failure

Plasma display may have local area failure on the screen. Fig-1 is the possible defect P.C.B. for each local area.


C3 board
D board
C2 board
D board
C1 board
D board
SU board
SD board
SC board
SS board
D board
C4 board
D board
C5 board
D board
C6 board
D board
Panel (Thin vertical line)

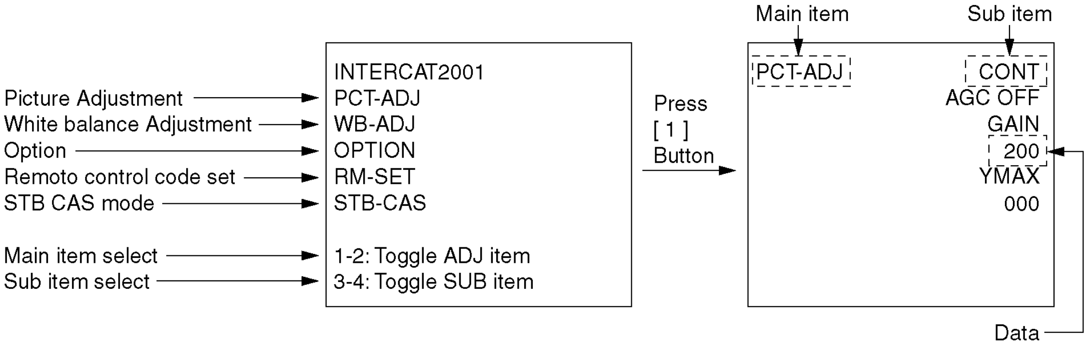
<Local screen failure chart>

Fig-1

10 Serviceman Mode

10.1. How to enter into Serviceman Mode

While pressing [VOLUME (-)] button of the main unit, press [RECALL] button of the remote control three times within 3 seconds.


Picture Adjustment
White balance Adjustment
Option
Remoto control code set
STB CAS mode
Main item select
Sub item select
INTERCAT2001
PCT-ADJ
WB-ADJ
OPTION
RM-SET
STB-CAS
1-2: Toggle ADJ item
3-4: Toggle SUB item
Press
[1]
Button
Main item
Sub item
PCT-ADJ
CONT
AGC OFF
GAIN
200
YMAX
000
Data

10.1.1. Key command

"1" button...Main items Selection in forward direction

"2" button...Main items Selection in reverse direction

"3" button...Sub items Selection in forward direction

"4" button...Sub items Selection in reverse direction

"VOL" button...Value of sub items change in forward direction (+), in reverse direction (-)

10.1.2. Cancellation

Switch off the power with the [POWER] button on the main unit or the [POWER] button on the remote control.

10.2. Contents of adjustment mode

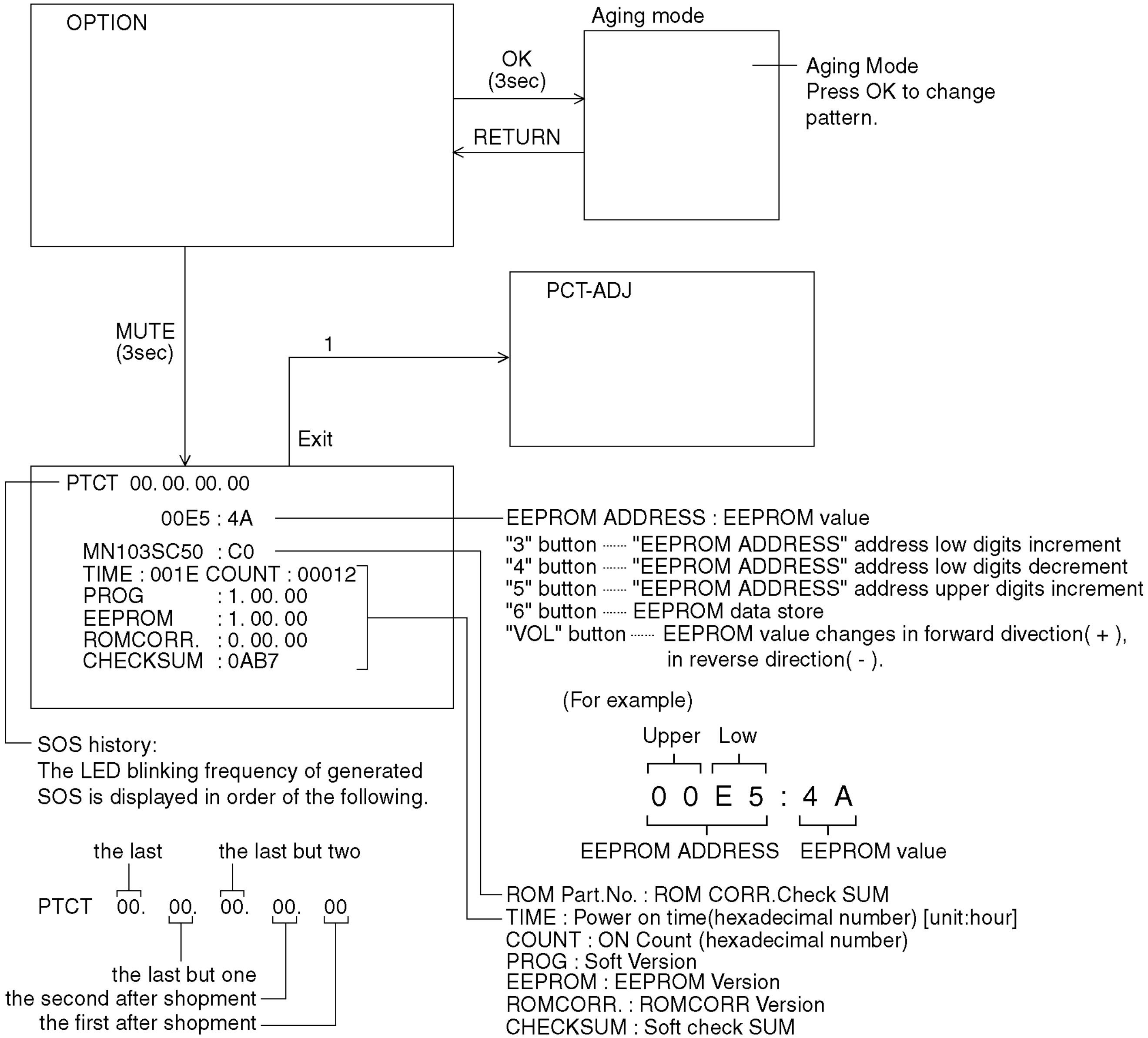
- Value is shown as a hexadecimal number.
- Preset value differs depending on models.
- After entering the adjustment mode, take note of the value in each item before starting adjustment.

Main item	Sub item	Sample Data	Remark
PCT-ADJ	CONT	GAIN 200	
	COLOR	38	
	TINT	05	
	BRIGHT	7FB	
	RFAGC1	74	
	AGCADJ1	FIX	
	RFAGC2	74	
	AGCADJ2	FIX	
WB-ADJ	R CUT	80	
	G CUT	80	
	B CUT	80	
	R DRV	EC	
	G DRV	FC	
	B DRV	DB	
	ALL CUT	80	
	ALL DRV	FC	
	WB BRG	804	
OPTION	SD BOOT	ROM	
	OPT00	01	
	ANT-POW	OFF	
	POF-SET	NORMAL	
	STB-SEC	SEC	
	EMGCY	OFF	
	EEP COPY	ALL	
	CLK MODE	00	
	CLOCK	80	
	CEC-CHK	OFF	
RM-SET	CODE	A	
STB-CAS	-	-	

10.3. Memory edit mode

10.3.1. How to access

1. Select “OPTION” in Service man Mode.
2. Press [MUTE] button on the remote control for more than 3 seconds.


OPTION
OK
(3sec)
RETURN
Aging mode
Aging Mode
Press OK to change
pattern.
MUTE
(3sec)
1
Exit
PCT-ADJ
PTCT 00. 00. 00. 00
00E5 : 4A
MN103SC50 : C0
TIME : 001E COUNT : 00012
PROG : 1. 00. 00
EEPROM : 1. 00. 00
ROMCORR. : 0. 00. 00
CHECKSUM : 0AB7
EEPROM ADDRESS : EEPROM value
"3" button ······ "EEPROM ADDRESS" address low digits increment
"4" button ······ "EEPROM ADDRESS" address low digits decrement
"5" button ······ "EEPROM ADDRESS" address upper digits increment
"6" button ······ EEPROM data store
"VOL" button ······ EEPROM value changes in forward divection(+),
in reverse direction(-).
(For example)
Upper
Low
0 0 E 5 : 4 A
EEPROM ADDRESS
EEPROM value
SOS history:
The LED blinking frequency of generated
SOS is displayed in order of the following.
the last
the last but two
PTCT 00. 00. 00. 00. 00
the last but one
the second after shopment
the first after shopment
ROM Part.No. : ROM CORR.Check SUM
TIME : Power on time(hexadecimal number) [unit:hour]
COUNT : ON Count (hexadecimal number)
PROG : Soft Version
EEPROM : EEPROM Version
ROMCORR. : ROMCORR Version
CHECKSUM : Soft check SUM

10.3.2. Exit

1. Press [1] button on the remote control.

10.4. Device data mode

Device data display obtain IIC lead status and various processing values for the problem analysis by the market etc.

10.4.1. How to access

1. Select the memory edit mode.
2. Press [RECALL] button on the remote control.

```
WECOR        0   IWEC          0
SD-CASE      0   ISD           0
MV-SYS       0   IVFREQ      7FF
IHCKNUM    7FF   IHCKNUM2    7FF
IFNSD        0
IVNSD        1   IHNSD         1
CKNUM-BS   320   VFREQ-BS    36E
CKNUM-HD   7FF   VFREQ-HD    7FF
```

10.4.2. Exit

1. Press [RECALL] button on the remote control.

11 Adjustment Procedure

11.1. Driver Set-up

11.1.1. Item / Preparation

1. Input a white signal to plasma video input.
2. Set the picture controls as follows.
   Picture menu: Vivid
   Aspect: Full

Caution

1. First perform Vsus adjustment.
2. Confirmation of Vscn voltage should be performed after confirmation of Vad adjustment.
   When Vad=-90V, Voltage of Vscn is 50V ±4V.

11.1.2. Adjustments

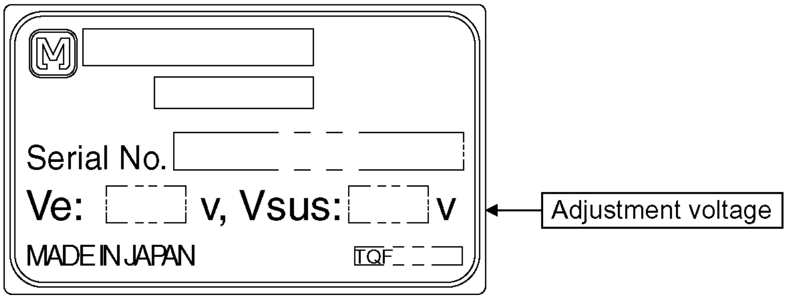
Adjust driver section voltages referring the panel data on the panel data label.

Check or adjust the following voltages with the multimeter.

Name	Test Point	Voltage	Volume	Remarks
Vsus	TPVSUS (SS)	Vsus ± 2V	VR251 (P)	*
Ve	TPVE (SS)	Ve ± 2V	VR6000 (SS)	*
Vset	TPVSET (SC)	260V ± 7V	Fixed	
Vad	TPVAD (SC)	-90V ± 1V	VR6600 (SC)	
Vscn	TPVSCN (SC)	Vad+140V ± 4V	Fixed	
Vda	TPVDA (SS)	75V ± 1V	Fixed	

*See the Panel label.

Panel Label information



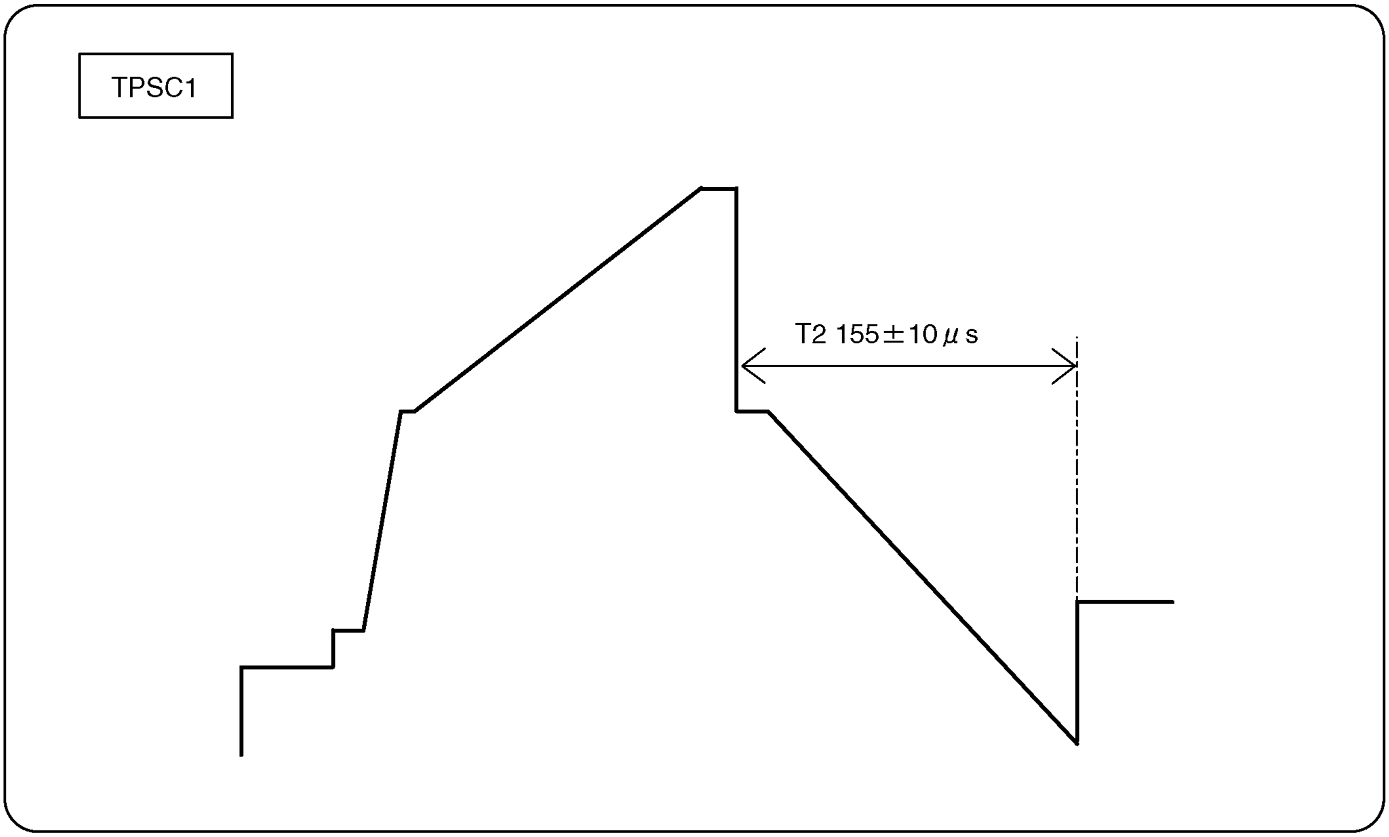
11.2. Initialization Pulse Adjust

1. Input the White signal to plasma video input.
2. Set the picture controls as follows.

   Picture menu : Vivid

   Aspect : Full
3. Connect Oscilloscope to TPSC1 (T2) and adjust VR6602 for 195+10μ Sec.

	Test point	Volume	Level
T2	TPSC1 (SC)	VR6602 (SC)	155 ± 10μ Sec



11.3. P.C.B. (Printed Circuit Board) exchange

11.3.1. Caution

1. To remove P.C.B. , wait 1 minute after power was off for discharge from electrolysis capacitors.

11.3.2. Quick adjustment after P.C.B. exchange

Adjust the following voltages with the multimeter.

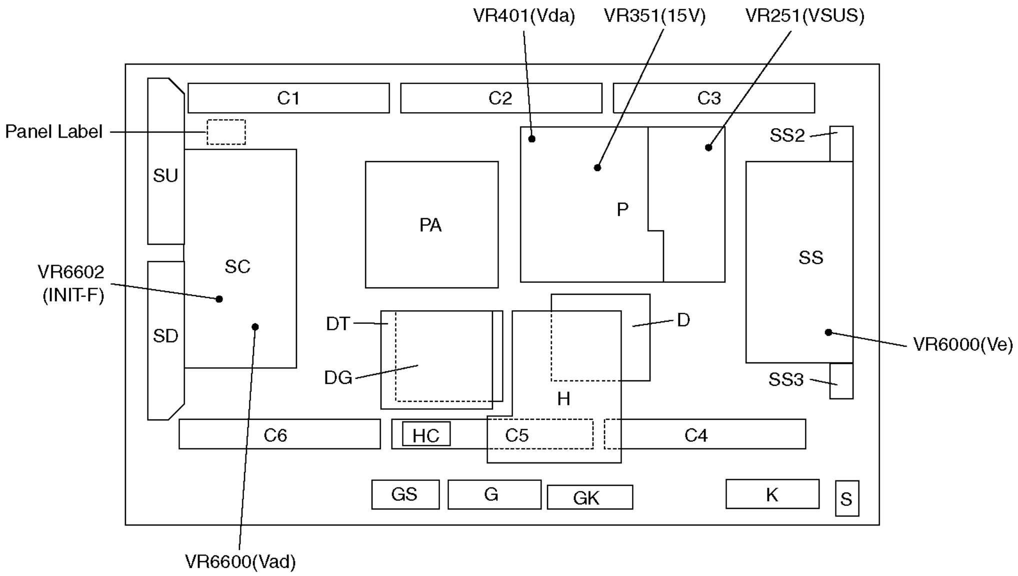
P.C.B.	Name	Test Point	Voltage	Volume	Remarks
P Board	Vsus	TPVSUS (SS)	Vsus ± 2V	VR251 (P)	*
SC Board	Vad	TPVAD (SC)	-90V ± 1V	VR6600 (SC)	
SS Board	Ve	TPVE (SS)	Ve ± 2V	VR6000 (SS)	*
D, DG Board	White blance and Sub brightness for NTSC, PAL, HD, PC and 625i signals				

*See the Panel label.

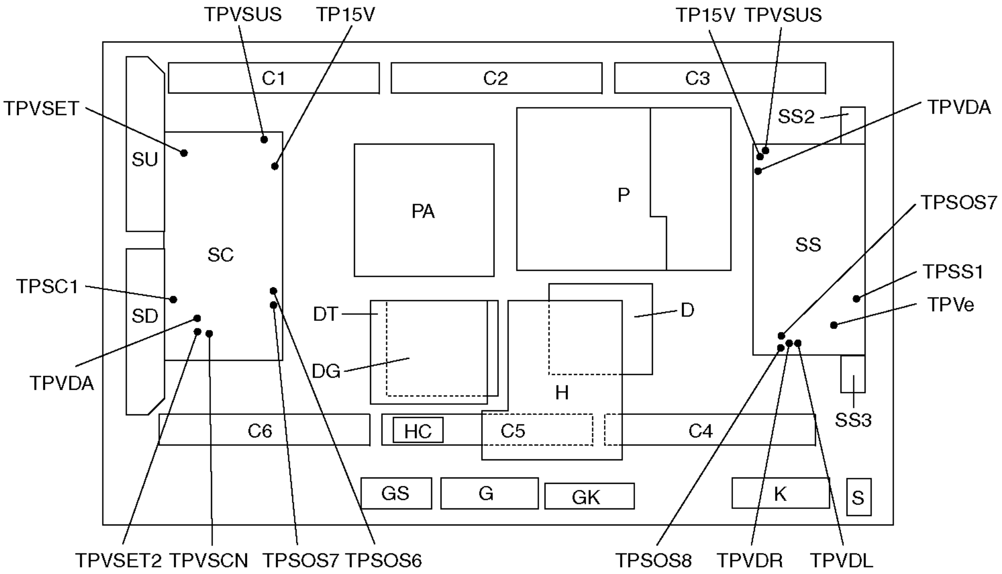
Caution:

Absolutely do not reduce Vsus below Ve not to damage the P.C.B.

11.4. Adjustment Volume Location


VR401(Vda)
VR351(15V)
VR251(VSUS)
C1
C2
C3
Panel Label
SS2
SU
PA
P
SS
VR6602
(INIT-F)
SC
DT
D
SD
DG
VR6000(Ve)
SS3
H
C6
HC
C5
C4
GS
G
GK
K
S
VR6600(Vad)

11.5. Test Point Location


TPVSUS
TP15V
TP15V
TPVSUS
C1
C2
C3
TPVSET
SS2
TPVDA
SU
PA
P
TPSOS7
SS
SC
TPSC1
TPSS1
DT
D
TPVe
SD
TPVDA
DG
H
SS3
C6
HC
C5
C4
GS
G
GK
K
S
TPVSET2
TPVSCN
TPSOS7
TPSOS6
TPSOS8
TPVDR
TPVDL

12 Adjustment

12.1. White balance adjustment

Instrument Name	Connection	Remarks
・W/B pattern ・Color analyzer (Minolta CA-100 or equivalent)	Component input Panel surface	User setting: Normal

Procedure

- Ensure aging is adequate.
- Make sure the front panel to be used on the final set is fitted.
- Make sure a color signal is not being shown before adjustment.
- Put the color analyzer where there is little color variation.

1. Output a white balance pattern.
2. Check that the color temperature is “cool”.
3. Set to factory mode, WB-ADJ.
4. Set “R-CUT” “G-CUT” “B-CUT” the values written in table A.
5. Attach the sensor of color analyzer to the center of highlight window.
6. Fix G drive at C0h and adjust “B-DRV” and “R-DRV” so x, y value of color analyzer become the “Color temperature High” in table 1.
7. Increase RGB together so the maximum drive value in RGB becomes FCh. That is, set “ALL DRIVE” to FCh.
8. Set color temperature to “Normal”.
9. Set “R-CUT” “G-CUT” “B-CUT” the values written in table A.
10. Attach the sensor of color analyzer to the center of highlight window.
11. Fix G drive at C0h and adjust “B-DRV” and “R-DRV” so x, y value of color analyzer become the “Color temperature Mid” in table 1.
12. Increase RGB together so the maximum drive value in RGB becomes FCh. That is, set “ALL DRIVE” to FCh.

    * When WB-ADJ(mid) is adjusted by data-offset, set values as follows.

    R-DRV : the same as R-DRV_cool

    G-DRV : “G-DRV_cool” -2hDAC

    B-DRV : “B-DRV_cool” -22hDAC
13. Set color temperature to “Warm”.
14. Set “R-CUT” “G-CUT” “B-CUT” the values written in table A.
15. Attach the sensor of color analyzer to the center of highlight window.
16. Fix G drive at C0h and adjust “B-DRV” and “R-DRV so x, y value of color analyzer become the “Color temperature Low” in table 1.
17. Increase RGB together so the maximum drive value in RGB becomes FCh. That is, set “ALL DRIVE” to FCh.

    * When WB-ADJ(warm) is adjusted by data-offset, set values as follows.

    R-DRV : the same as R-DRV_cool

    G-DRV : “G-DRV_cool” -AhDAC

    B-DRV : “B-DRV_cool” -62hDAC
18. Set color temperature to “Cool”.
19. Copy values adjusted by HD pattern to the NTSC data area of EEPROM.

Table A, R-CUT, G-CUT, B-CUT setting data

Color Temperature	R-CUT	G-CUT	B-CUT
Cool	80	85	83
Mid	80	85	83
Warm	80	85	83

Remarks

Pic Menu: Vivid
Picture: +30
ASPECT: FULL

- Highlight section

  Signal amplitude 75%

White Balance Pattern

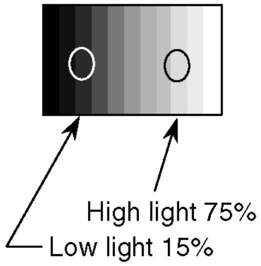


Table 1, W/B adjustment value

Color Temperature	x	y
Cool	0.276	0.276
Normal	0.288	0.296
Warm	0.313	0.329

Table 2, Cutoff data addresses (HD)

Color Temperature	R	G	B
High	A0-0125	A0-0126	A0-0127
Medium	A0-012B	A0-012C	A0-012D
Low	A0-0131	A0-0132	A0-0133

Table 3, Drive data addresses (HD)

Color Temperature	R	G	B
High	A0-0128	A0-0129	A0-012A
Medium	A0-012E	A0-012F	A0-0130
Low	A0-0134	A0-0135	A0-0136

Table 4, Cutoff data addresses (NTSC)

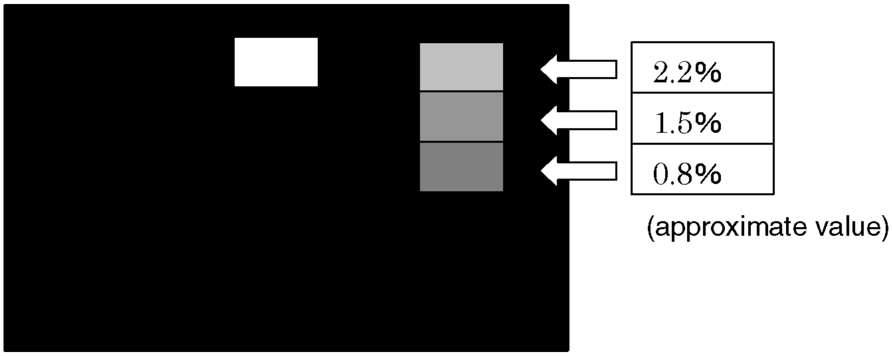
Color Temperature	R	G	B
High	A0-0137	A0-0138	A0-0139
Medium	A0-013D	A0-013E	A0-013F
Low	A0-0143	A0-0144	A0-0145

Table 5, Drive data addresses (NTSC)

Color Temperature	R	G	B
High	A0-013A	A0-013B	A0-013C
Medium	A0-0140	A0-0141	A0-0142
Low	A0-0146	A0-0147	A0-0148

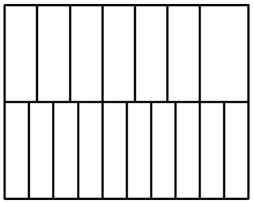
12.2. Sub bright adjustment

Instrument Name	Connection	Remarks
1. NTSC signal generator	The input terminal	Picture menu: Vivid Color temp: Cool ASPECT: Full

Procedure	Remarks
・Color balance adjustment is finished for each signal. ・Do adjustments in a dark room. 1. Display the pattern for adjusting sub bright from video input. 2. Use "SUB-BRT" in "WB-ADJ" in Serviceman Mode menu. adjust so the top section shows up and the center section fades away. SUB-BRT EEPROM address : 112: sub bright (upper) 0x08 113: sub bright (lower) 0x00 	TV is set to 0IRE when it is in factory mode. The pattern for adjust is made so that black level is 0IRE.

12.3. ABL operation level adjustment

Instrument Name	Connection	Remarks
・PC (RGB) signal generator (Leader: VGA/No.9 signal) ・Wattmeter	・Component 1 ・Connect the AC power of the adjustment set to the wattmeter.	

Procedure	Remarks
[condition] ・Make sure the set is aged for 30 minutes or more before adjustment. ・Voltage 120V 50/60Hz (variation within 1%) ・Volume at minimum and screen size at full ・Component 1 input, Pic. mode : Vivid (Normal : Set) 1. Connect the set's AC power to the wattmeter. 2. Receive the VGA No.9 signal from Leader. 3. Select the PWRCTRL item in WB-ADJ in the factory mode (INTERCAT2001). 4. Adjust PWRCTRL so the set's power consumption are as follows. Adjust to shift large to small for DAC. [DATA] ・・・04 03 02 01 00 FF FE FD FC・・・ [POWER] low ←——————→ high Factory adjustment with OSD TH-58PX60U 570 ± 5W	 No.9 Signal Top half: Full color bar Bottom half: Horizontal 10 steps bar **Notes:** 1. It is OK that falling down the power few watts when exiting the factory adjustment mode. 2. Adjust the large number for DAC when they have 2 adjustment points.

13 Hotel mode

1. Purpose

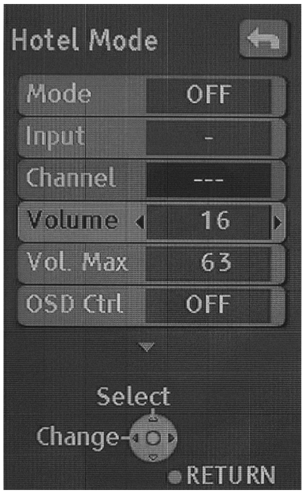
   Restrict a function for hotels.

2. Access command to the Hotel mode setup menu

   In order to display the Hotel mode setup menu, please enter the following command **(within 2 second)**.

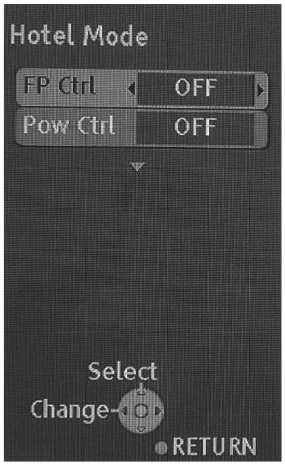
   [TV] : Vol. “Down” + [REMOTE] : TV/VIDEO (3 times)

   Then, the Hotel mode setup menu is displayed.



Hotel Mode

Mode OFF
Input -
Channel ---
Volume 16
Vol. Max 63
OSD Ctrl OFF



Hotel Mode

FP Ctrl OFF
Pow Ctrl OFF

3. Explain the Hotel mode setup menu
4. To exit the Hotel mode

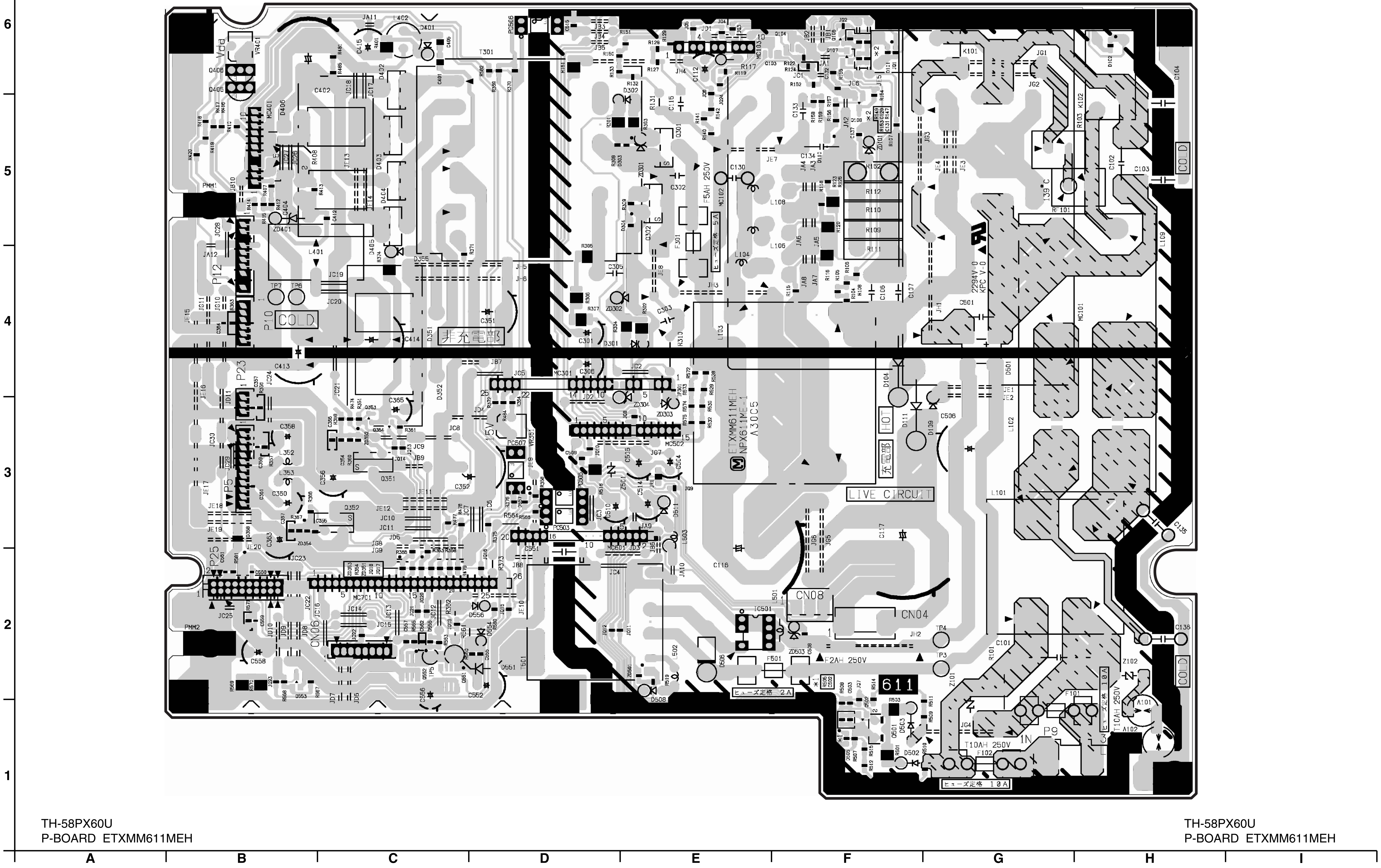
   Disconnect AC power code from wall outlet.

item	Function
Mode	Select hotel mode ON/OFF
Input	Select input signal modes. Set the input, when each time power is switched on. Selection: Off/RF/COMP1/COMP2/HDMI1/HDMI2/VIDEO1/VIDEO2/VIDEO3 ・Off: give priority to a last memory.
Channel	Select channel when input signal is RF. Set the channel, each time power is switched on. Selection: Any channel number or “-” “-” means the channel when turns off.
Volume	Adjust the volume when each time power is switched on. Range: 0 to 63
Vol. Max	Adjust maximum volume. Range: 0 to 63
OSD Ctrl	Restrict the OSD. Selection: Off/Pattern1 ・OFF: No restriction ・PATTERN1: restriction
FP Ctrl	Select flont key conditions. Selection: Off/Pattern1/All ・Off: altogether valid. ・Pattern: only input key is valid. ・All: altogether invalid.
Pow Ctrl	Select POWER-ON/OFF condition when AC power cord is disconnected and then connected. OFF: The same condition when AC power cord is disconnected. ON: Forced power ON condition.

14 Conductor Views

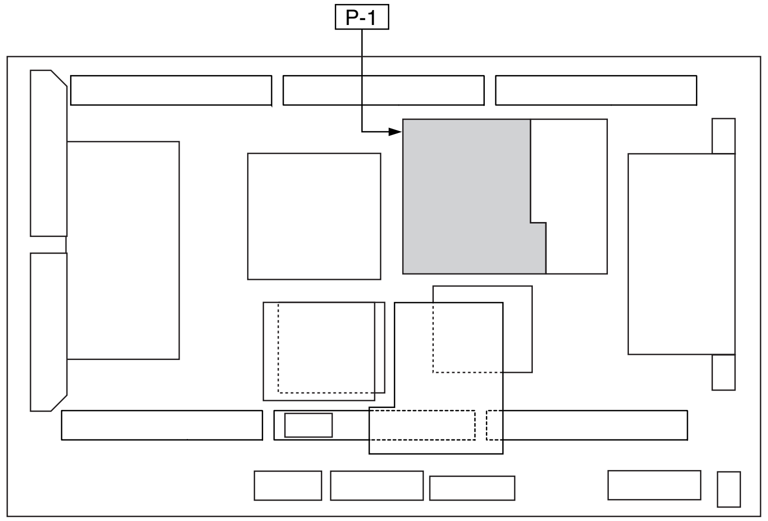
14.1. P-Board

P(P-1)-BOARD (FOIL SIDE)
ETXMM611MEH (NPX611ME-1)


6
5
4
3
2
1
A
B
C
D
E
F
G
H
I
COLD
HOT
LIVE CIRCUIT
ETXMM611ME
NPX611ME-1
A30C5
CN04
CN08
CN06
P9
P12
P23
P25
F101
F102
F301
F501
F2AH 250V
T10AH 250V
F5AH 250V
611

TH-58PX60U
P-BOARD ETXMM611MEH

TH-58PX60U
P-BOARD ETXMM611MEH



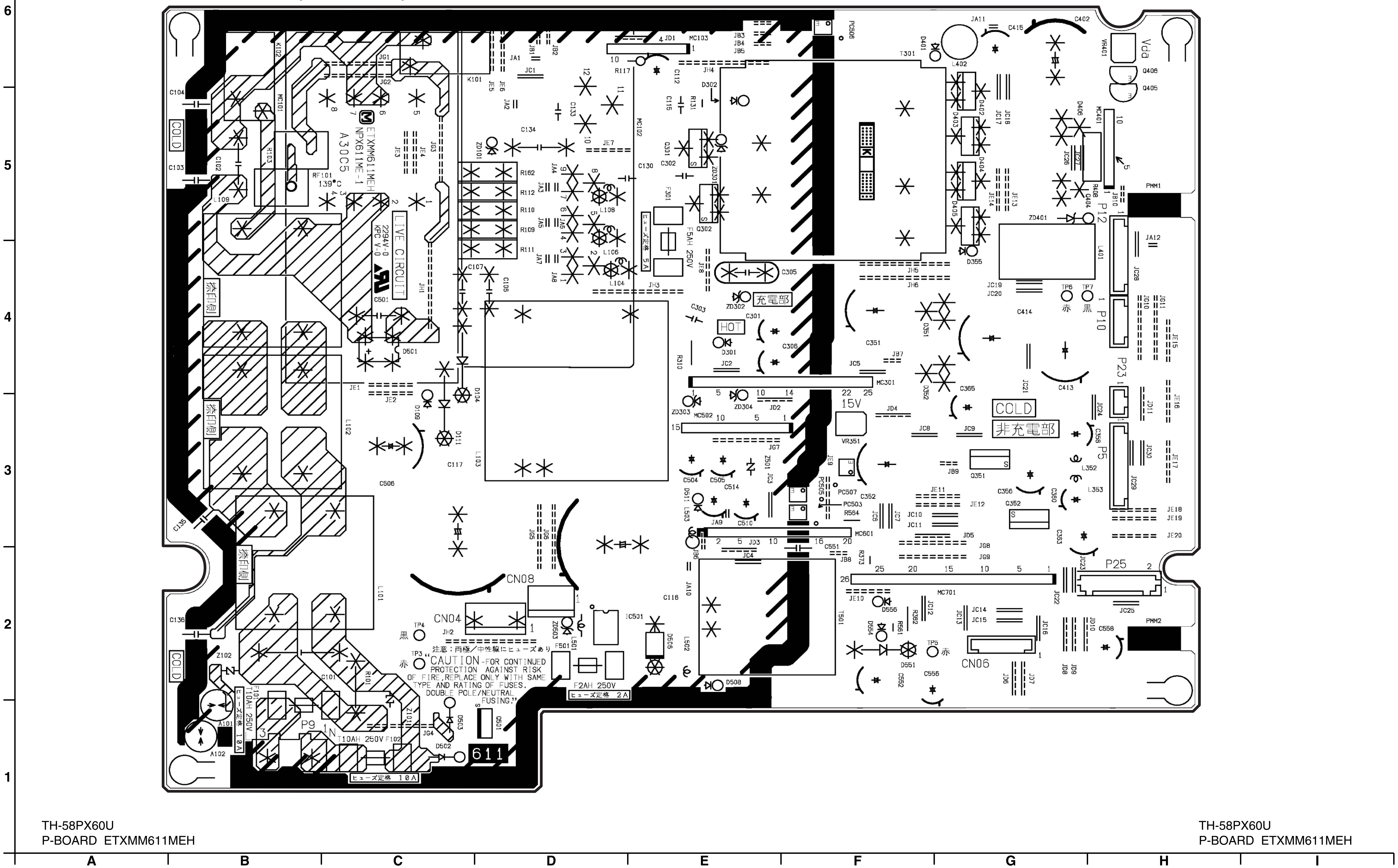
Parts Location

P-BOARD (FOIL SIDE)			
IC		**TRANSISTOR**	
IC501	E-2	Q103	F-6
		Q104	F-6
MODULE		Q106	F-6
		Q107	F-6
MC101	H-4	Q108	F-5
MC102	E-5	Q301	E-5
MC103	E-6	Q302	E-5
MC301	D-4	Q351	C-3
MC401	B-5	Q352	C-3
MC502	E-3	Q353	C-3
MC601	D-2	Q354	C-3
MC701	C-2	Q404	B-5
		Q405	B-5
PHOTO COUPLER		Q406	B-6
PC503	D-3	Q501	F-1
PC505	D-3	Q502	F-1
PC506	D-6	Q551	D-2
PC507	D-3	Q552	C-2
		Q553	B-2
VOLUME			
VR351	D-3		
VR401	B-6		

Parts Location

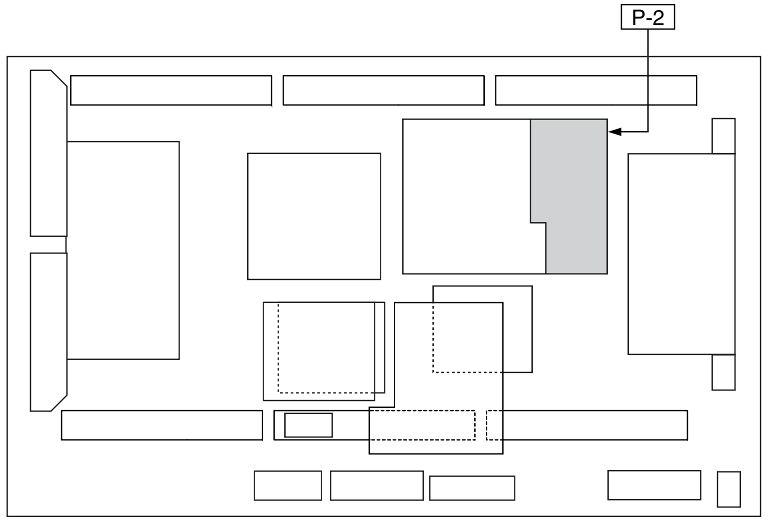
P-BOARD (COMPONENT SIDE)					
IC		**PHOTO COUPLER**		**VOLUME**	
IC501	D-2	PC503	F-3	VR351	H-3
		PC505	F-3	VR401	F-6
MODULE		PC506	F-6		
MC101	B-5	PC507	F-3		
MC102	E-5	**TRANSISTOR**			
MC103	E-6				
MC301	F-4	Q301	E-5		
MC401	H-5	Q302	E-5		
MC502	E-3	Q351	G-3		
MC601	F-2	Q352	G-3		
MC701	G-2	Q404	G-5		
		Q405	H-5		
		Q406	H-6		
		Q501	D-1		

P(P-1)-BOARD (COMPONENT SIDE)
ETXMM611MEH (NPX611ME-1)


6
5
4
3
2
1
A
B
C
D
E
F
G
H
I
ETXMM611MEH
NPX611ME-1
A30C5
LIVE CIRCUIT
COLD
HOT
充電部
非充電部
捺印側
15V
Vda
CN08
CN04
CN06
P9
P12
P10
P23
P5
P25
PMM1
PMM2
611
F5AH 250V
ヒューズ定格 5A
F2AH 250V
ヒューズ定格 2A
T10AH 250V
ヒューズ定格 10A
注意：両極／中性線にヒューズあり
CAUTION -FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE AND RATING OF FUSES. DOUBLE POLE/NEUTRAL FUSING.
TP3 赤
TP4 黒
TP5 赤
TP6 赤
TP7 黒
T301
T501
MC101
MC102
MC301
MC401
MC502
MC601
MC701
IC501
RF101 139°C

TH-58PX60U
P-BOARD ETXMM611MEH

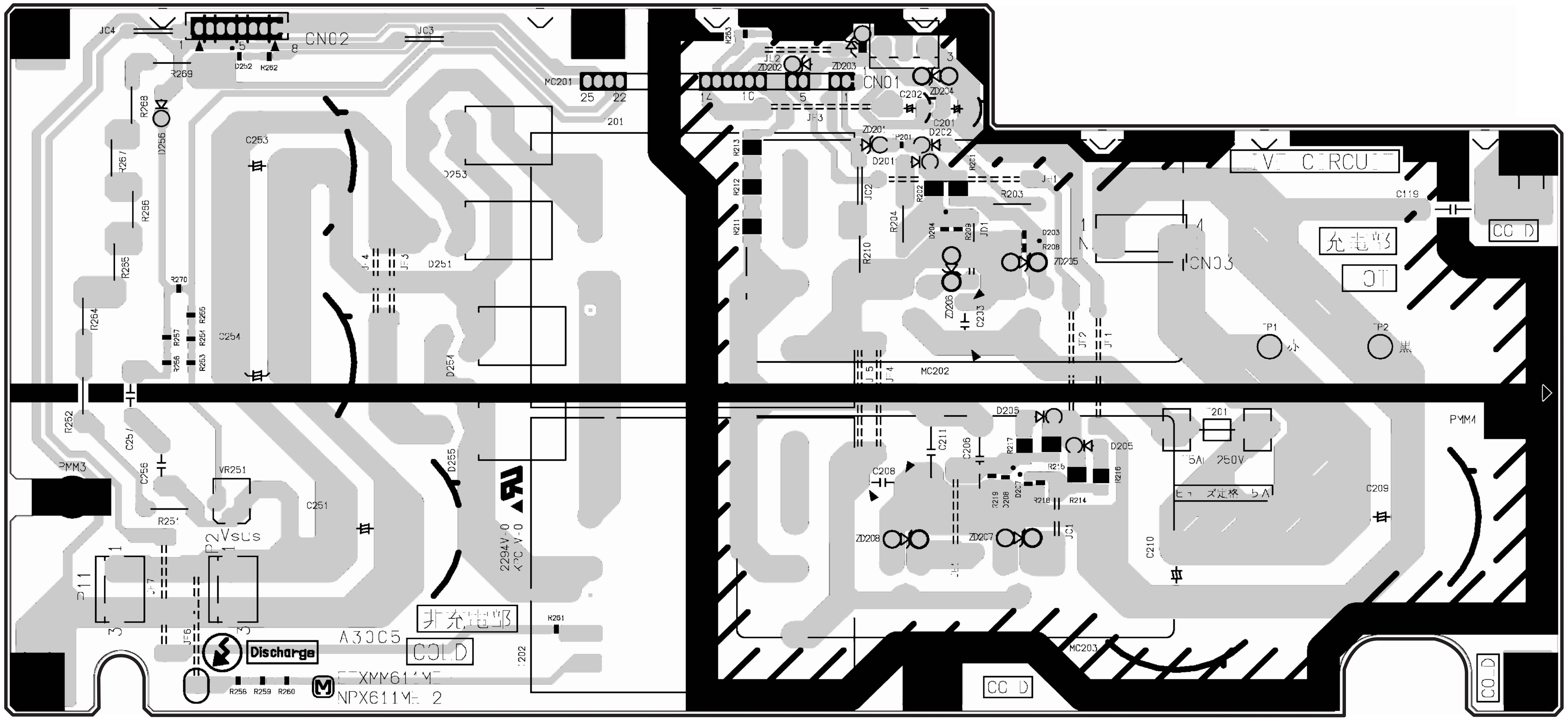
TH-58PX60U
P-BOARD ETXMM611MEH



Parts Location

P-BOARD (FOIL SIDE)			
MODULE		TP	
MC201 MC202 MC203	D-4 F-3 G-2	TP1 TP2	G-3 H-3
		VOLUME	
		VR251	B-2

P(P-2)-BOARD (FOIL SIDE)
ETXMM611MEH (NPX611ME-2)

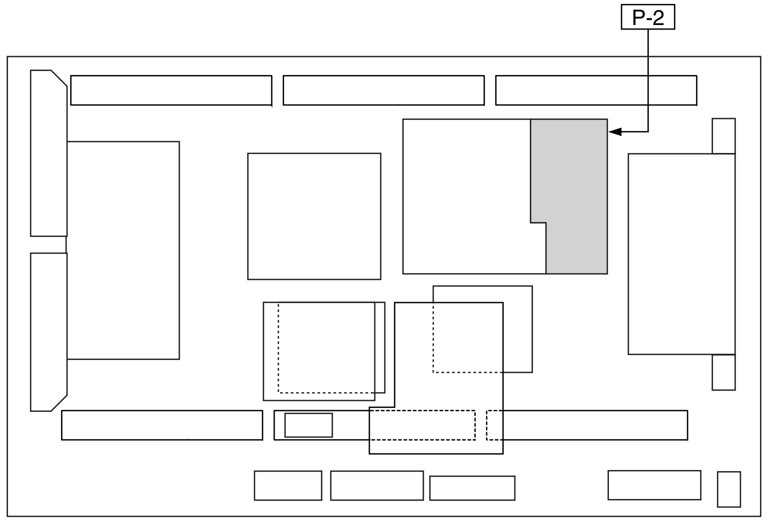

6
5
4
3
2
1
A
B
C
D
E
F
G
H
I
CN02
CN01
CN03
MC201
MC202
MC203
JC4
JC3
R269
R268
D256
R267
R266
R265
R264
R270
R257
R251
R255
R256
R253
C254
C253
D253
D251
D254
D255
R252
C257
C256
VR251
R251
C251
PMM3
PMM4
P2
Vsus
P211
JF6
Discharge
A30C5
COLD
ETXMM611ME
NPX611ME 2
R258
R259
R260
R261
R262
D252
R263
JL2
ZD202
ZD203
ZD204
C202
C201
ZD201
D202
D201
R213
R212
R211
R210
R204
R202
R203
R201
R209
D204
JD1
D203
R208
ZD205
ZD206
C203
LIVE CIRCUIT
C119
TP1
TP2
D206
D205
C211
C206
R217
R215
R216
C208
R219
D208
D207
R218
R214
JC1
ZD208
ZD207
C210
C209
F201
5A 250V
2294V-0
KC V-0

TH-58PX60U
P-BOARD ETXMM611MEH

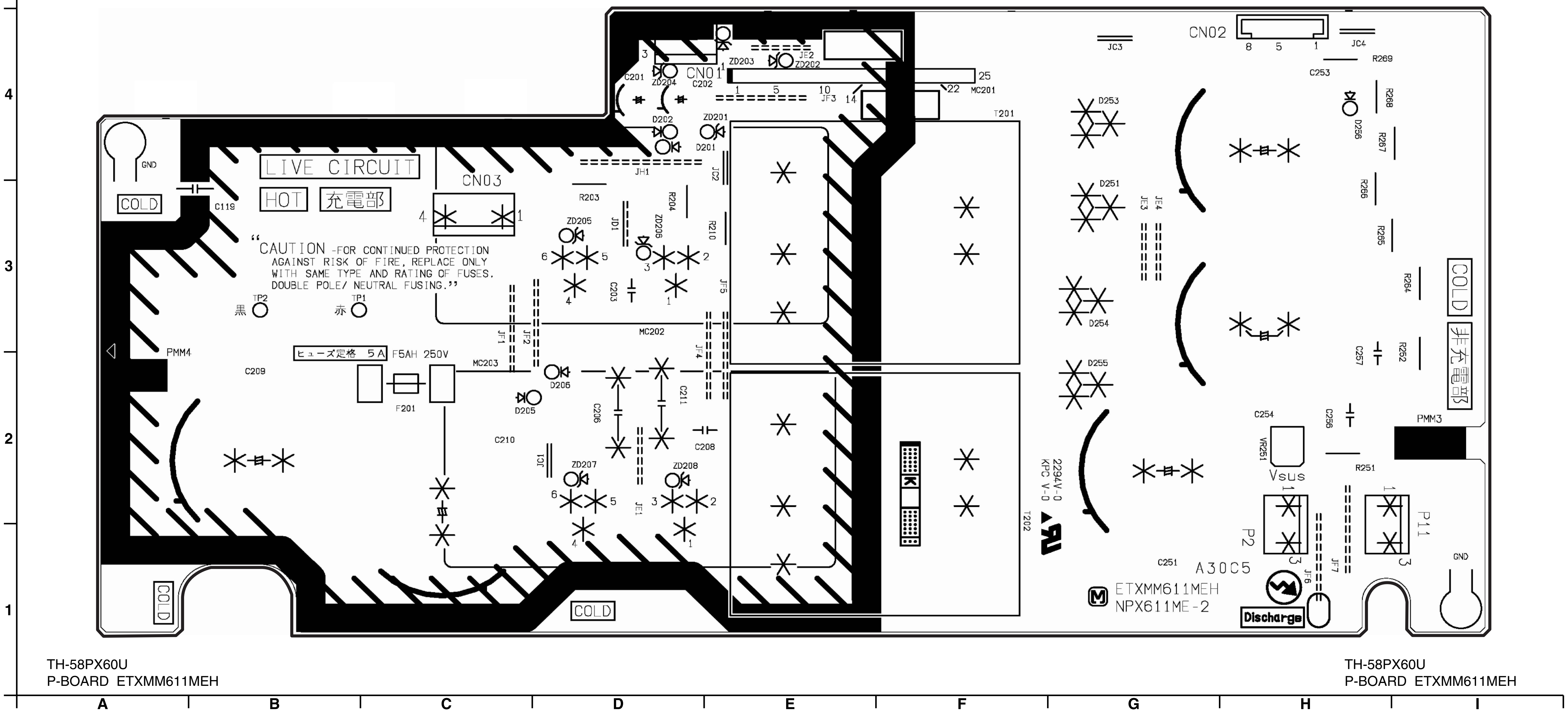
TH-58PX60U
P-BOARD ETXMM611MEH

Parts Location

P-BOARD (COMPONENT SIDE)			
MODULE		TP	
MC201	F-4	TP1	C-3
MC202	D-3	TP2	B-3
MC203	C-2	VOLUME	
		VR251	H-2



P(P-2)-BOARD (COMPONENT SIDE)
ETXMM611MEH (NPX611ME-2)

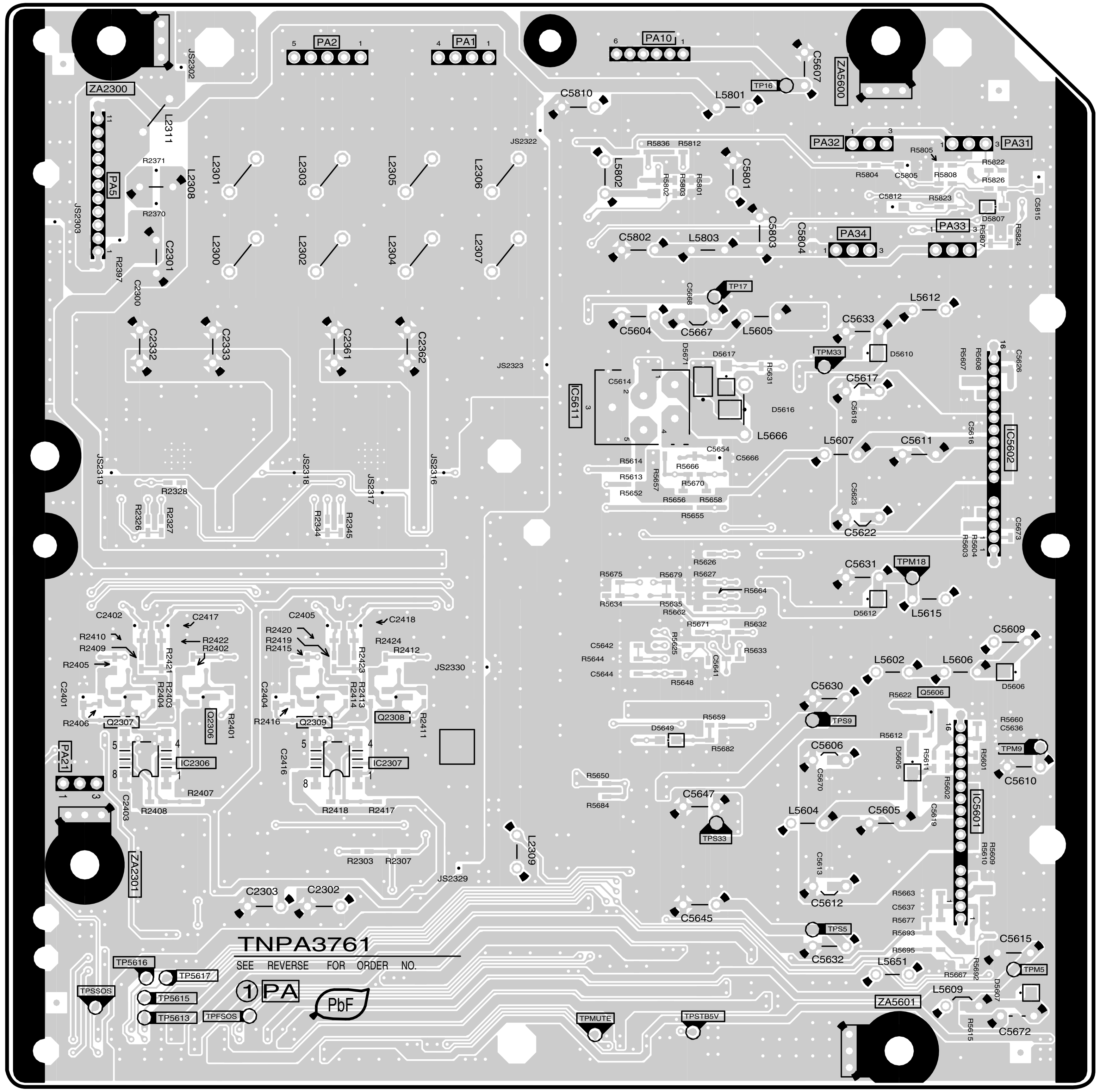

6
5
4
3
2
1
A
B
C
D
E
F
G
H
I
GND
COLD
C119
LIVE CIRCUIT
HOT
充電部
CN03
"CAUTION -FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE AND RATING OF FUSES. DOUBLE POLE/ NEUTRAL FUSING."
TP2
黒
TP1
赤
PMM4
C209
ヒューズ定格 5A
F5AH 250V
F201
MC203
C210
CN01
C201
ZD204
C202
ZD203
ZD202
JE2
MC201
JF3
D202
ZD201
D201
JH1
R203
R204
R210
JC2
JD1
ZD205
ZD206
C203
JF5
JF1
JF2
MC202
JF4
D206
D205
C206
C211
C208
JC1
ZD207
ZD208
JE1
T201
T202
CN02
JC3
JC4
R269
C253
D253
R268
D256
R267
D251
JE3
JE4
R266
R265
D254
R264
D255
C257
R252
COLD
非充電部
C254
C256
VR251
PMM3
R251
Vsus
2294V-0
KPC V-0
P2
P11
JF6
JF7
C251
A30C5
ETXMM611MEH
NPX611ME-2
Discharge
GND

TH-58PX60U
P-BOARD ETXMM611MEH

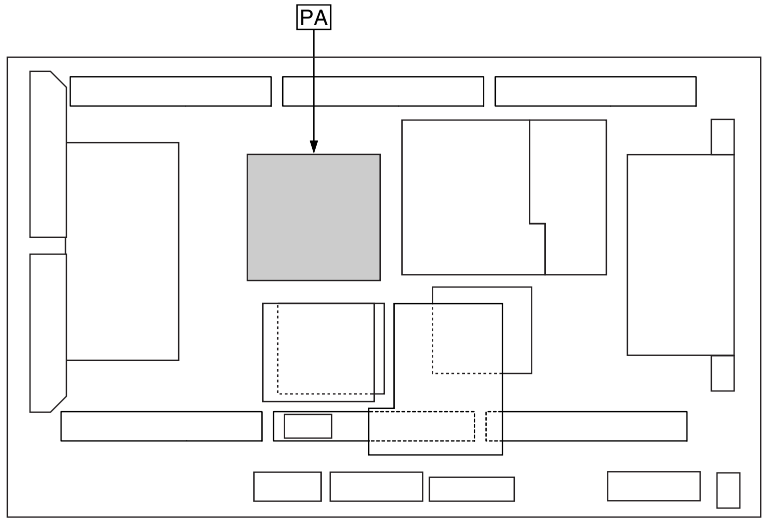
TH-58PX60U
P-BOARD ETXMM611MEH

14.2. PA-Board

PA-BOARD (FOIL SIDE)
TXNPA1BJTUE


PA2
PA1
PA10
ZA2300
ZA5600
ZA2301
ZA5601
PA5
PA21
PA32
PA31
PA34
PA33
TP16
TP17
TPM33
TPM18
TPS9
TPM9
TPS33
TPS5
TPM5
TP5616
TP5617
TP5615
TP5613
TPSSOS
TPFSOS
TPMUTE
TPSTB5V
IC5611
IC5602
IC5601
IC2306
IC2307
Q2307
Q2306
Q2309
Q2308
Q5606
L2301
L2303
L2305
L2306
L2300
L2302
L2304
L2307
L2308
L2311
L2309
L5801
L5802
L5803
L5612
L5605
L5666
L5607
L5615
L5602
L5606
L5604
L5651
L5609
C5810
C5801
C5802
C5803
C5804
C5607
C2301
C2332
C2333
C2361
C2362
C5604
C5667
C5633
C5617
C5611
C5622
C5631
C5609
C5630
C5606
C5610
C5647
C5605
C5645
C5612
C5615
C5632
C5672
C2303
C2302
TNPA3761
SEE REVERSE FOR ORDER NO.
①PA
PbF

TH-58PX60U
PA-BOARD TXNPA1BJTUE



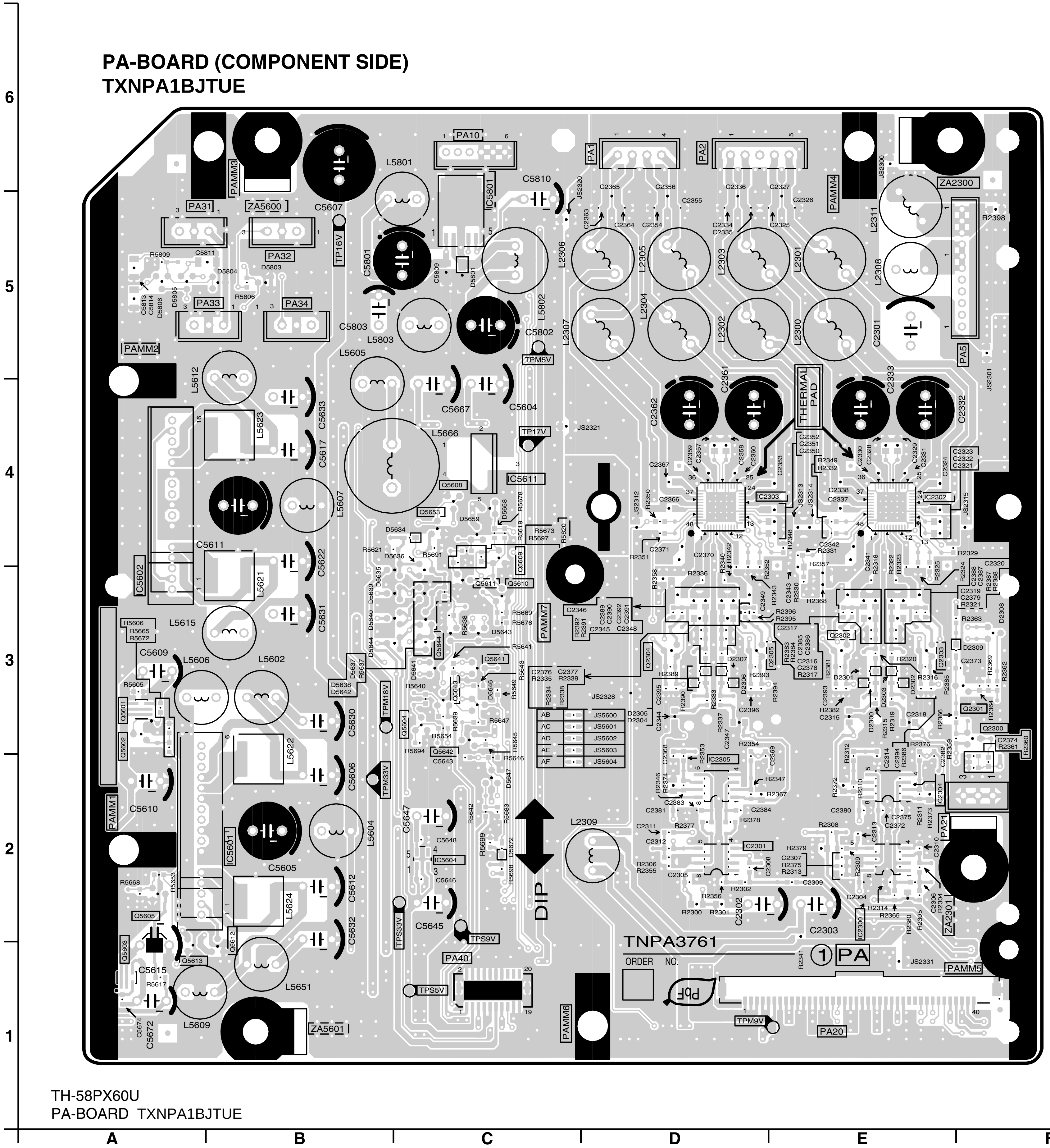
TH-58PX60U
PA-BOARD TXNPA1BJTUE

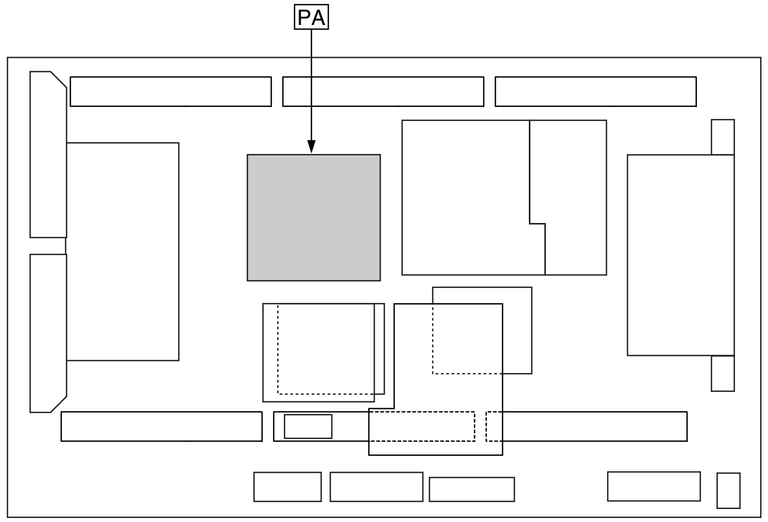
Parts Location

PA-BOARD (FOIL SIDE)

IC		TP	
IC2306	B-2	TP16	D-6
IC2307	C-2	TP17	D-5
IC5601	E-2	TP5613	B-1
IC5602	F-4	TP5615	B-1
IC5611	D-4	TP5616	A-1
		TP5617	B-1
TRANSISTOR		TPFSOS	B-1
		TPM5	F-2
Q2306	B-3	TPM9	F-2
Q2307	A-2	TPM18	E-3
Q2308	C-3	TPM33	E-4
Q2309	B-3	TPMUTE	D-1
Q5606	E-3	TPS5	E-2
		TPS9	E-3
		TPS33	D-2
		TPSSOS	A-1
		TPSTB5V	D-1

PA-BOARD (COMPONENT SIDE)
TXNPA1BJTUE


6
5
4
3
2
1
A
B
C
D
E
F
TNPA3761
ORDER NO.
① PA
THERMAL PAD
DIP
PA1
PA2
PA5
PA10
PA20
PA21
PA31
PA32
PA33
PA34
PA40
PAMM1
PAMM2
PAMM3
PAMM4
PAMM5
PAMM6
PAMM7
ZA2300
ZA2301
ZA5600
ZA5601
TP16V
TP17V
TPM5V
TPM9V
TPM18V
TPM33V
TPS5V
TPS9V
TPS33V
IC2300
IC2301
IC2302
IC2303
IC2304
IC2305
IC5601
IC5604
IC5611
IC5801
L2300
L2301
L2302
L2303
L2304
L2305
L2306
L2307
L2308
L2309
L2311
L5602
L5604
L5605
L5606
L5607
L5609
L5612
L5615
L5621
L5622
L5623
L5624
L5651
L5666
L5801
L5802
L5803
C2301
C2302
C2303
C2332
C2333
C2361
C2362
C5602
C5604
C5605
C5606
C5607
C5609
C5610
C5611
C5612
C5615
C5617
C5622
C5630
C5631
C5632
C5633
C5645
C5647
C5667
C5672
C5801
C5802
C5803
C5810

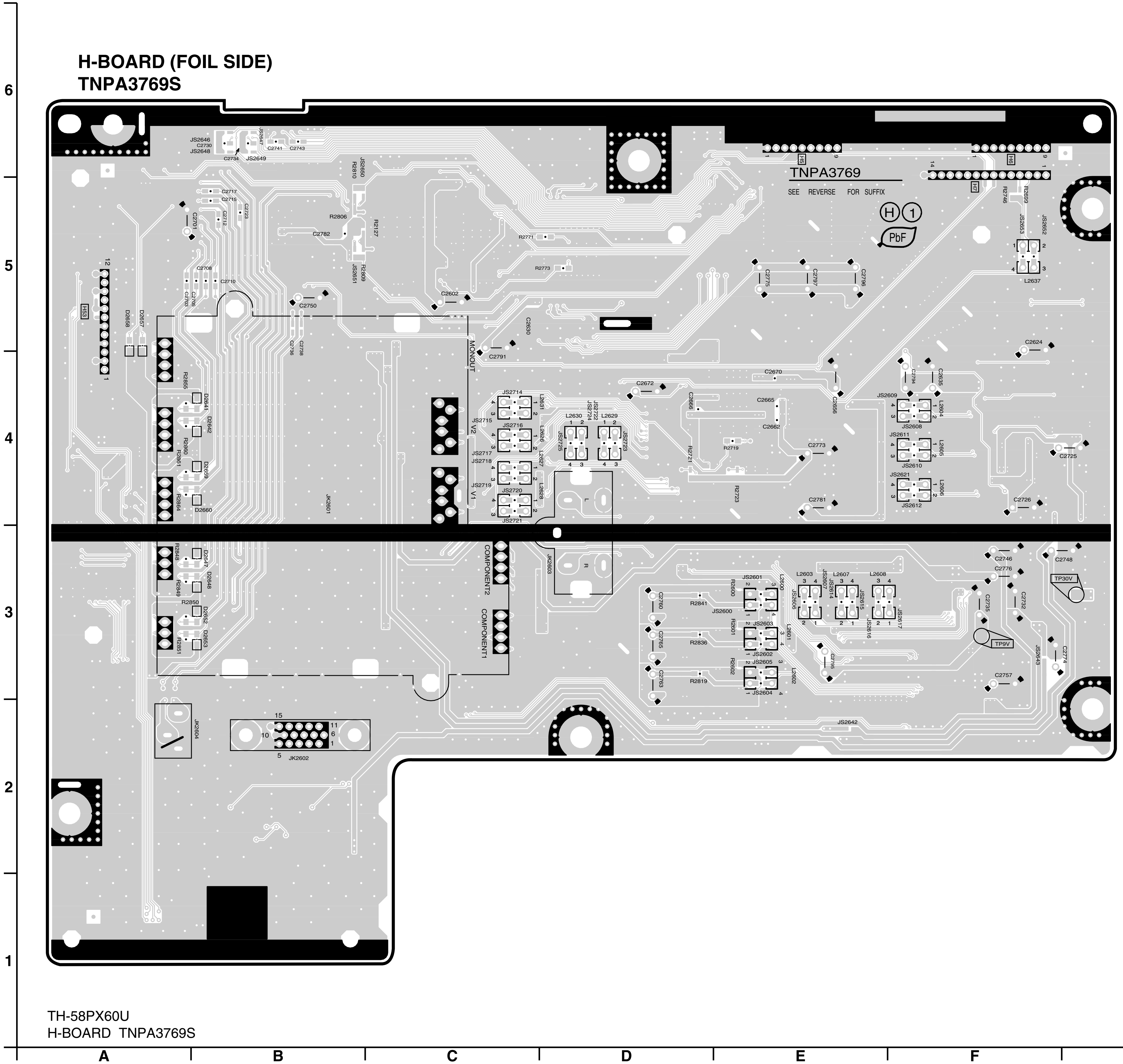


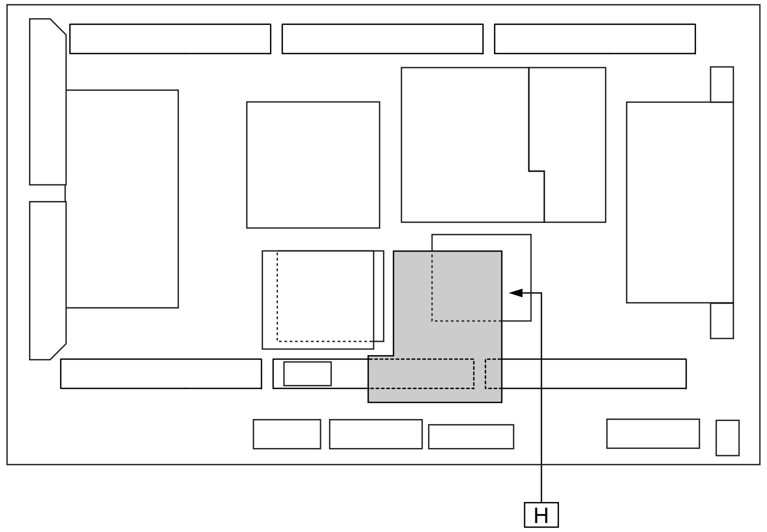
Parts Location

PA-BOARD (COMPONENT SIDE)					
IC		TRANSISTOR		TP	
IC2300	E-2	Q2300	F-3	TP16V	B-5
IC2301	D-2	Q2301	F-3	TP17V	C-4
IC2302	E-4	Q2302	E-3	TPM5V	C-5
IC2303	E-4	Q2303	E-3	TPM18V	B-3
IC2304	E-2	Q2304	D-3	TPM33V	B-2
IC2305	D-3	Q2305	E-3	TPS5V	C-1
IC5601	B-2	Q5601	A-3	TPS9V	C-2
IC5602	A-3	Q5602	A-3	TPS33V	C-2
IC5604	C-2	Q5603	A-1		
IC5611	C-4	Q5604	C-3		
IC5801	C-5	Q5605	A-2		
		Q5608	C-4		
		Q5609	C-4		
		Q5610	C-3		
		Q5612	B-1		
		Q5613	A-1		
		Q5641	C-3		
		Q5642	C-3		
		Q5643	C-3		
		Q5644	C-3		
		Q5653	C-4		

14.3. H-Board

H-BOARD (FOIL SIDE)
TNPA3769S


6
5
4
3
2
1
TNPA3769
SEE REVERSE FOR SUFFIX
H 1
PbF
MONOUT
V2
V1
COMPONENT2
COMPONENT1
JK2601
JK2602
JK2603
JK2604
TP9V
TP30V



Parts Location

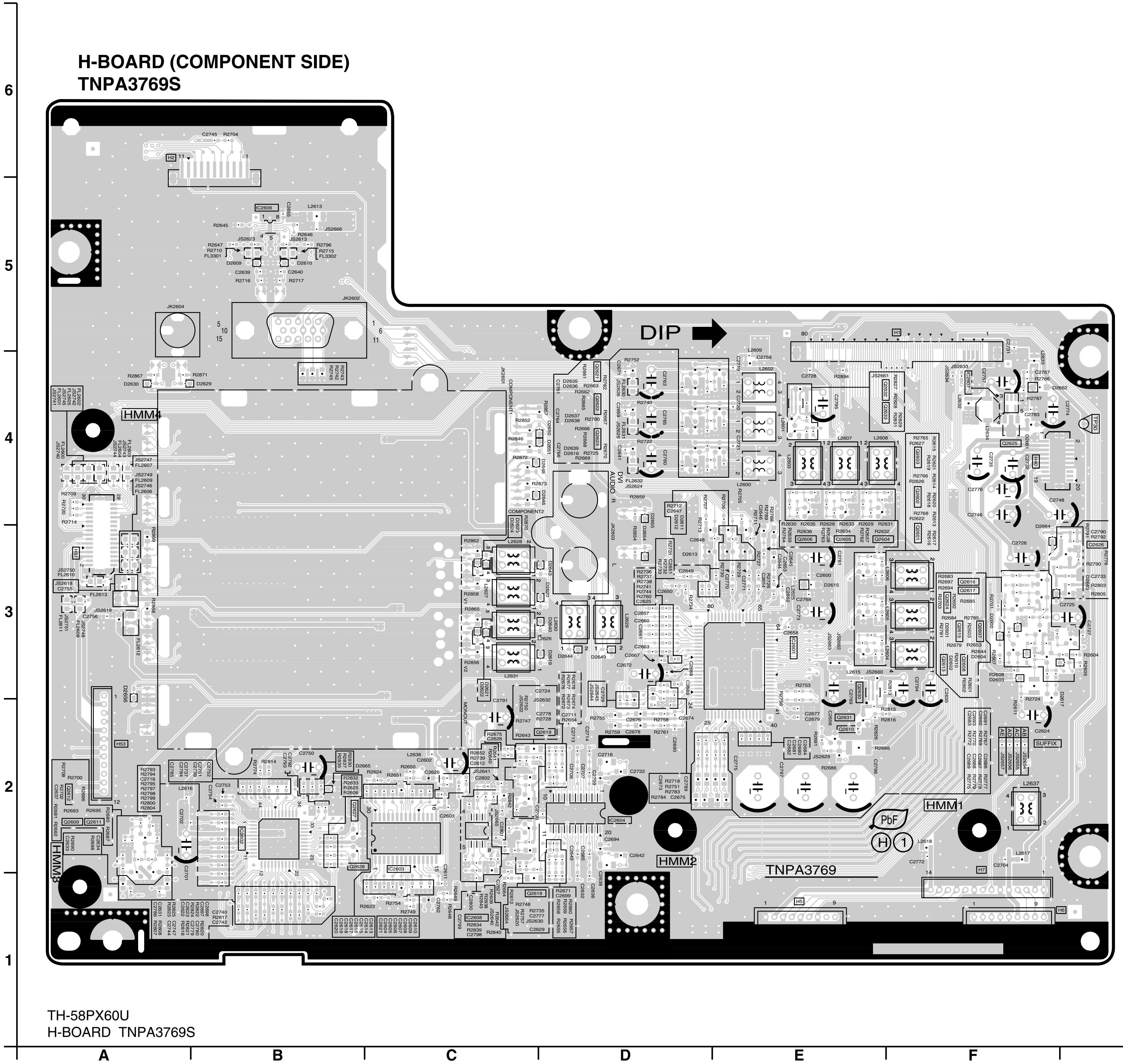
H-BOARD (FOIL SIDE)	
TP	
TP9V TP30V	F-3 G-3

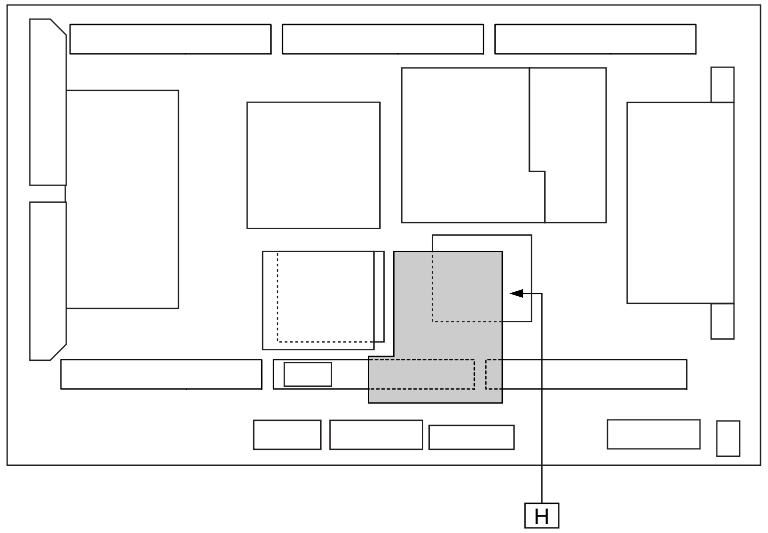
TH-58PX60U
H-BOARD TNPA3769S

TH-58PX60U
H-BOARD TNPA3769S

A B C D E F G H I

H-BOARD (COMPONENT SIDE)
TNPA3769S


6
5
4
3
2
1
A
B
C
D
E
F
G
H
I
DIP
TNPA3769
HMM1
HMM2
HMM3
HMM4
COMPONENT1
COMPONENT2
DVI
AUDIO R
SUFFIX
PbF
H
1
TP30



Parts Location

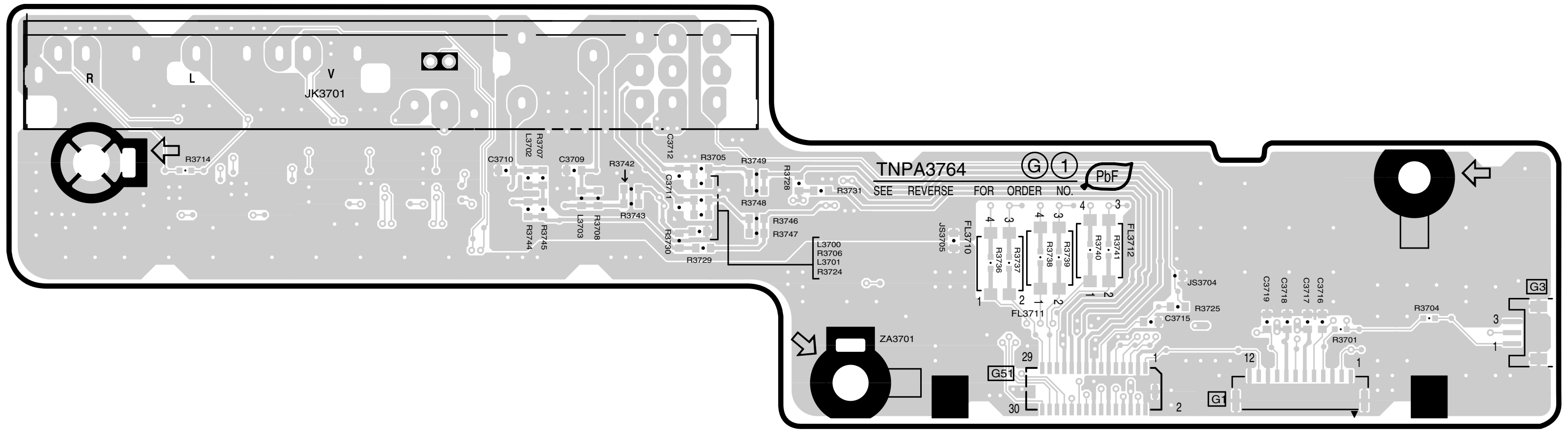
H-BOARD (COMPONENT SIDE)	
IC	
IC2601	E-3
IC2602	B-2
IC2603	C-2
IC2604	D-2
IC2606	B-5
IC2607	F-4
IC2608	C-2
TRANSISTOR	
Q2601	F-3
Q2602	F-4
Q2603	F-4
Q2604	E-4
Q2605	E-3
Q2606	E-3
Q2607	E-3
Q2608	E-3
Q2609	A-2
Q2610	E-2
Q2611	A-2
Q2612	A-2
Q2613	F-3
Q2615	F-3
Q2616	F-3
Q2617	F-3
Q2618	C-1
Q2619	D-2
Q2621	D-4
Q2622	D-4
Q2623	D-4
Q2624	F-3
Q2625	F-4
Q2626	G-3
Q2627	B-2
Q2628	B-2
Q2630	E-3
Q2631	E-2
Q2632	E-4
Q2633	E-4
TP	
TP30	G-4

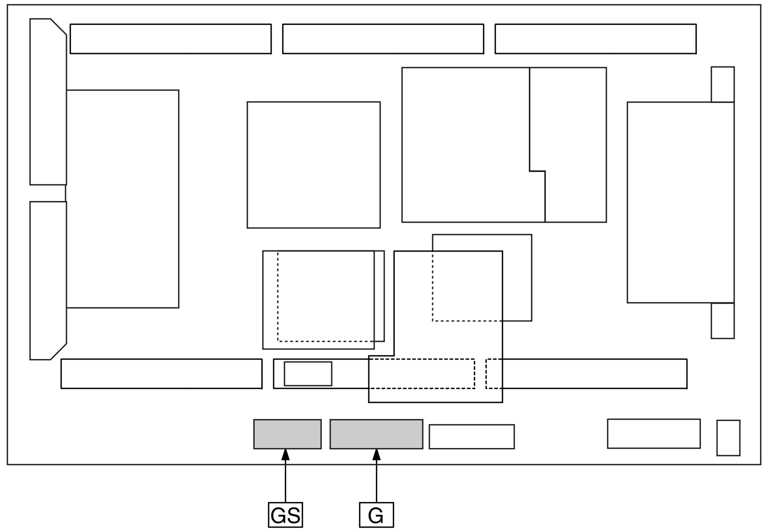
TH-58PX60U
H-BOARD TNPA3769S

TH-58PX60U
H-BOARD TNPA3769S

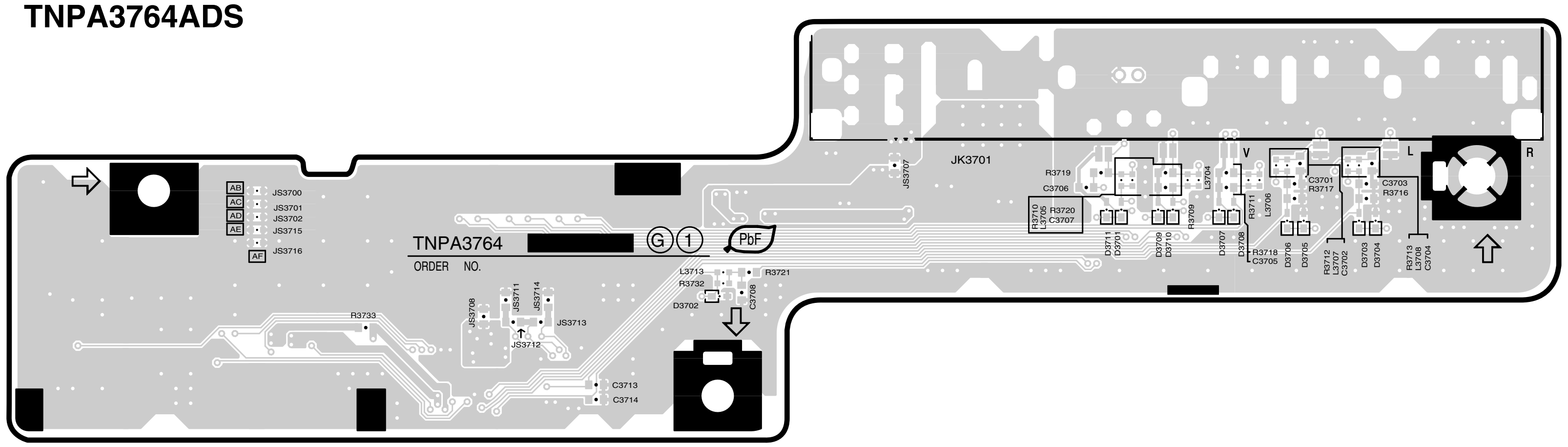
14.4. G and GS-Board

G-BOARD (FOIL SIDE)
TNPA3764ADS

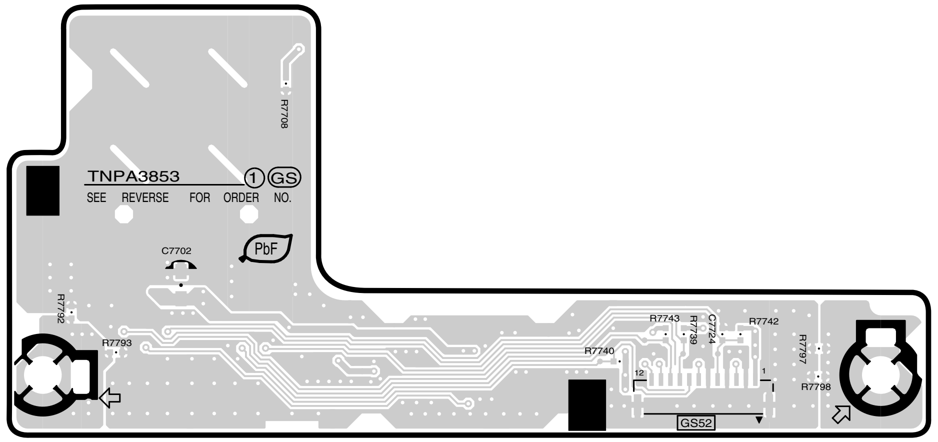

R
L
V
JK3701
R3714
C3710
C3709
R3742
R3705
R3749
R3748
R3743
R3746
R3747
R3729
TNPA3764
G
1
SEE REVERSE FOR ORDER NO.
PbF
L3700
R3706
L3701
R3724
FL3710
FL3711
FL3712
JS3704
R3725
C3715
R3704
R3701
ZA3701
G3
G51
G1
29
30
12
1
2
3



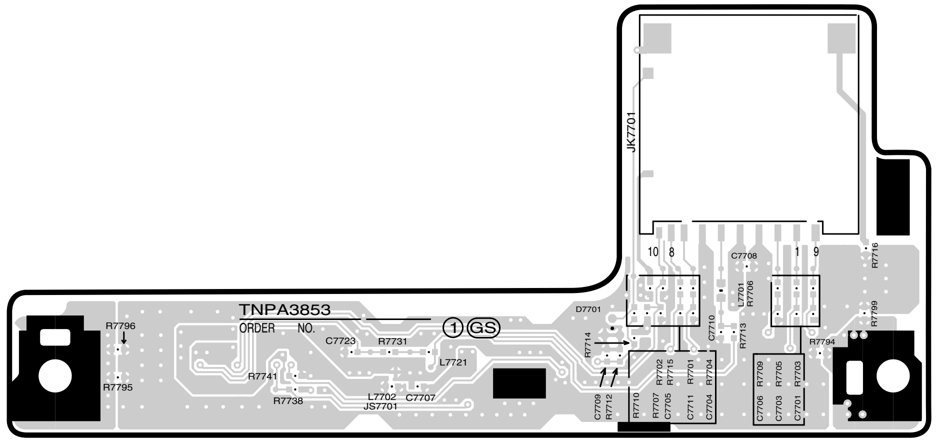
G-BOARD (COMPONENT SIDE)
TNPA3764ADS


JK3701
AB
AC
AD
AE
AF
JS3700
JS3701
JS3702
JS3715
JS3716
TNPA3764
ORDER NO.
G
1
PbF
L3713
R3732
R3721
D3702
R3733
JS3713
JS3712
C3713
C3714
R3719
C3706
R3720
C3707
C3701
R3717
C3703
R3716
R3718
C3705
V
L
R

GS-BOARD (FOIL SIDE)
TXNGS1BJTU


R7708
TNPA3853
1
GS
SEE REVERSE FOR ORDER NO.
C7702
PbF
R7792
R7793
R7740
R7743
R7739
C7724
R7742
R7797
R7798
12
1
GS52

GS-BOARD (COMPONENT SIDE)
TXNGS1BJTU


JK7701
R7796
R7795
TNPA3853
ORDER NO.
1
GS
C7723
R7731
L7721
R7741
R7738
L7702
C7707
JS7701
D7701
C7708
10
8
1
9
R7716
R7799
R7794
R7714

6
5
4
3
2
1

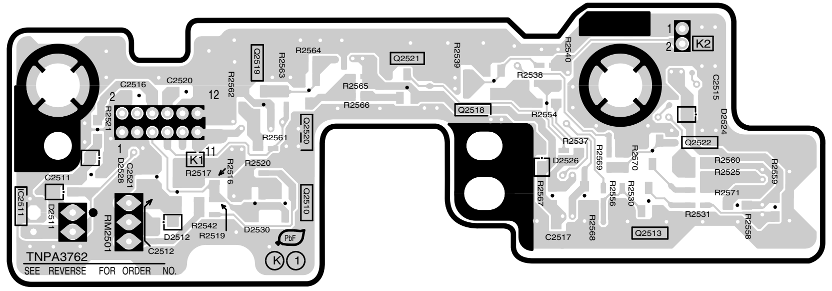
A B C D E F G H I

TH-58PX60U
G-BOARD TNPA3764ADS
GS-BOARD TXNGS1BJTU

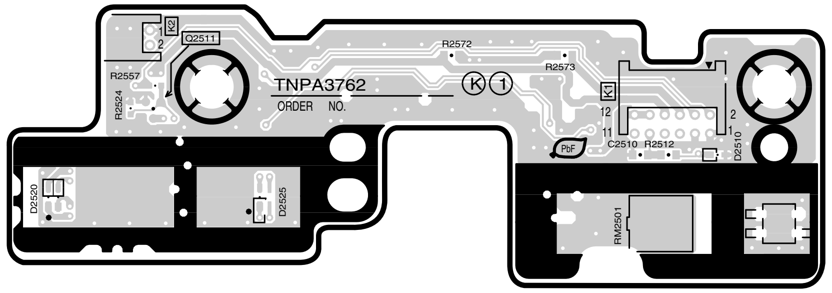
TH-58PX60U
G-BOARD TNPA3764ADS
GS-BOARD TXNGS1BJTU

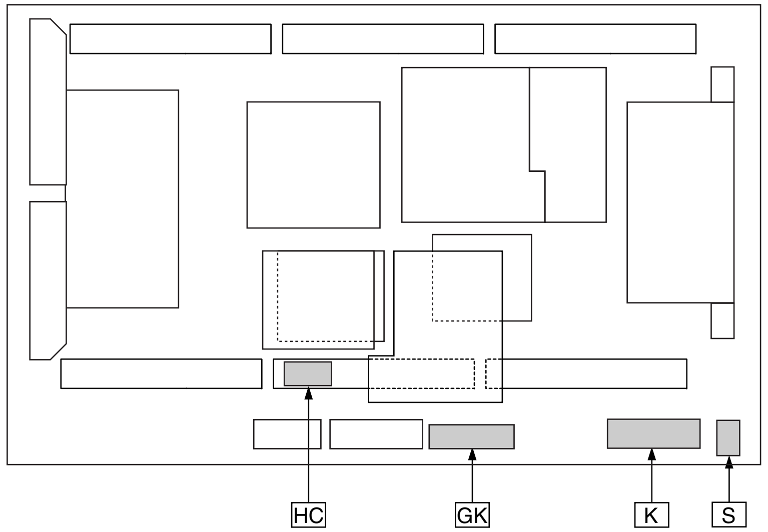
14.5. GK, HC, K and S-Board

K-BOARD (FOIL SIDE)
TXN/K1BJTU

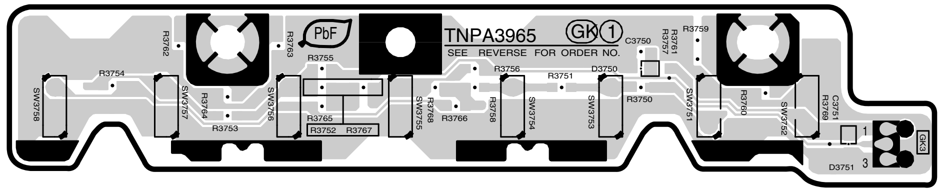

TNPA3762
SEE REVERSE FOR ORDER NO.
K1
K2
Q2521
Q2518
Q2522
Q2513
Q2519
Q2520
Q2510
C2516
C2520
C2511
C2512
C2517
R2564
R2565
R2566
R2561
R2520
R2517
R2519
R2542
R2536
R2554
R2537
R2560
R2525
R2571
R2531
D2512
D2530
D2526
RM2601
PbF

K-BOARD (COMPONENT SIDE)
TXN/K1BJTU

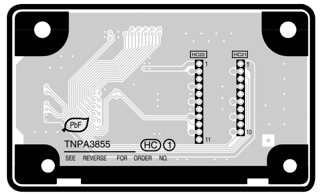

TNPA3762
ORDER NO.
Q2511
R2557
R2524
R2572
R2573
C2510
R2512
D2510
D2520
D2525
RM2601
K1
K2
PbF



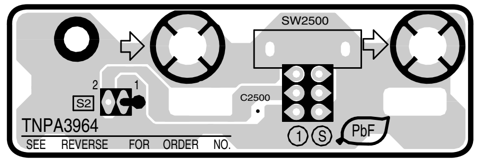
GK-BOARD (FOIL SIDE)
TNPA3965ACS


TNPA3965
SEE REVERSE FOR ORDER NO.
GK1
PbF
C3750
R3759
R3754
R3755
R3756
R3751
D3750
R3753
R3765
R3752
R3767
R3766
R3750
D3751
SW3758
SW3757
SW3756
SW3755
SW3754
SW3753
SW3752
SW3751

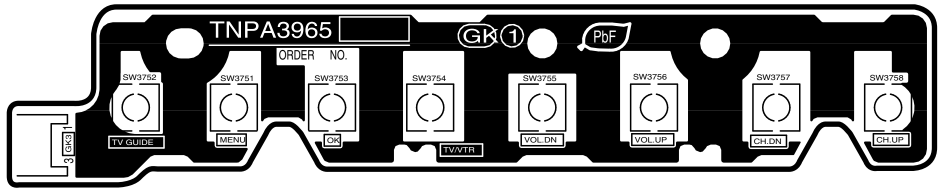
HC-BOARD (FOIL SIDE)
TNPA3855S


TNPA3855
SEE REVERSE FOR ORDER NO.
PbF

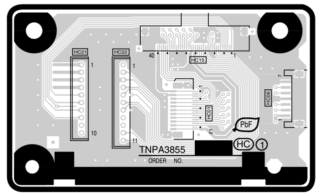
S-BOARD (FOIL SIDE)
TXN/S1BJTU


SW2500
C2500
S2
TNPA3964
SEE REVERSE FOR ORDER NO.
PbF

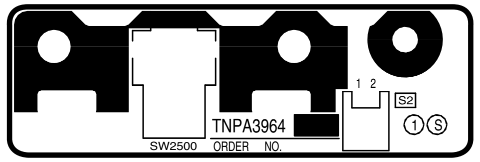
GK-BOARD (COMPONENT SIDE)
TNPA3965ACS


TNPA3965
ORDER NO.
GK1
PbF
SW3752
SW3751
SW3753
SW3754
SW3755
SW3756
SW3757
SW3758
TV GUIDE
MENU
OK
TV/VTR
VOL.DN
VOL.UP
CH.DN
CH.UP

HC-BOARD (COMPONENT SIDE)
TNPA3855S


TNPA3855
ORDER NO.
PbF

S-BOARD (COMPONENT SIDE)
TXN/S1BJTU


TNPA3964
SW2500
ORDER NO.
S2

TH-58PX60U
GK-BOARD TNPA3965ACS
HC-BOARD TNPA3855S
K-BOARD TXN/K1BJTU
S-BOARD TXN/S1BJTU

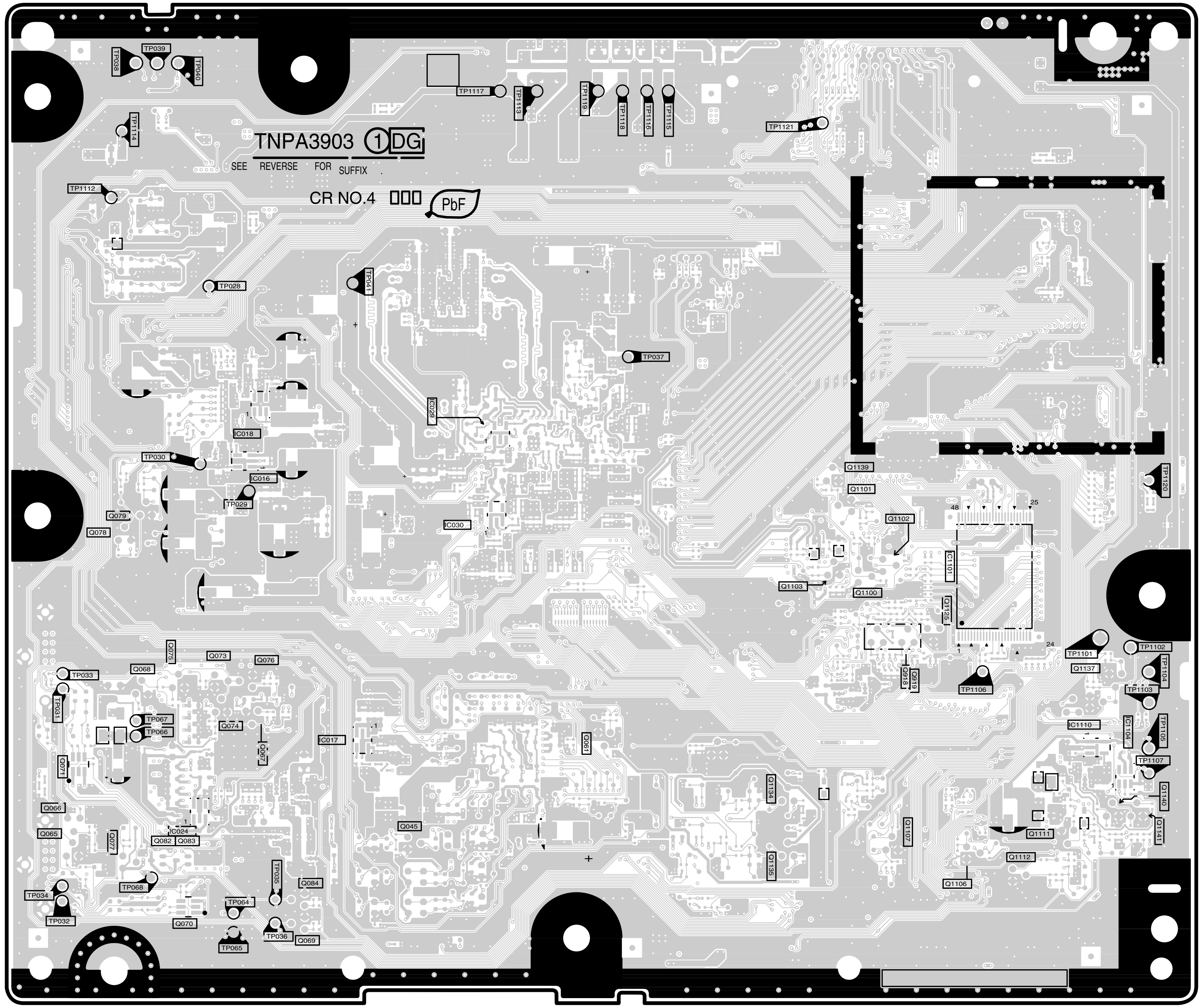
TH-58PX60U
GK-BOARD TNPA3965ACS
HC-BOARD TNPA3855S
K-BOARD TXN/K1BJTU
S-BOARD TXN/S1BJTU

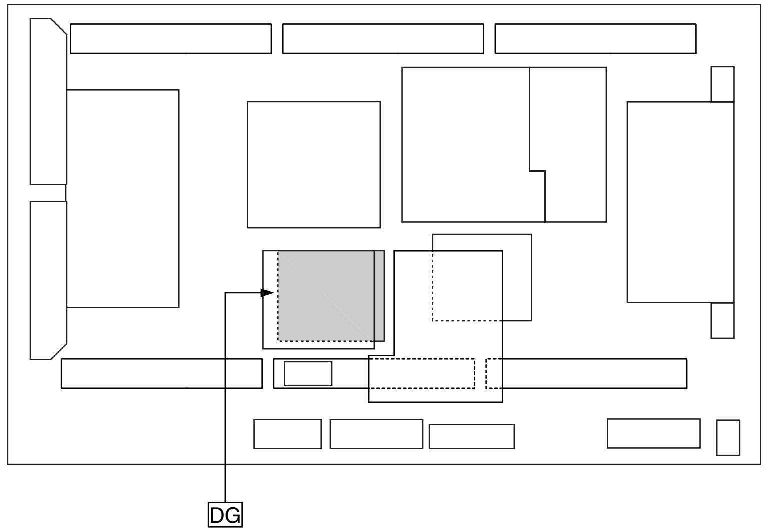
6
5
4
3
2
1

A B C D E F G H I

14.6. DG-Board

DG-BOARD (FOIL SIDE)
TNPA3903BLS


TNPA3903 ① DG
SEE REVERSE FOR SUFFIX
CR NO.4
PbF
TP4038
TP4039
TP4040
TP1114
TP1112
TP1117
TP1119
TP1118
TP1116
TP1115
TP1121
TP4028
TP4041
TP4037
IC4018
IC4016
IC4030
TP4030
TP4029
Q4079
Q4078
Q1139
Q1101
Q1102
Q1103
Q1100
IC1101
Q1125
TP1120
TP1101
TP1102
TP1104
TP1103
TP1106
Q1137
TP4033
Q4068
Q4075
Q4073
Q4076
TP4031
TP4067
TP4066
Q4074
Q4067
IC4017
Q4061
Q4071
Q4066
Q4065
Q4077
IC4024
Q4082
Q4083
Q4045
Q1134
Q1107
Q1111
Q1112
Q1106
Q1135
IC1110
Q1140
Q1141
TP1105
TP1107
TP4035
Q4084
TP4034
TP4068
TP4032
Q4070
TP4064
TP4065
TP4036
Q4069
Q4918
Q4919
48
25
24
1



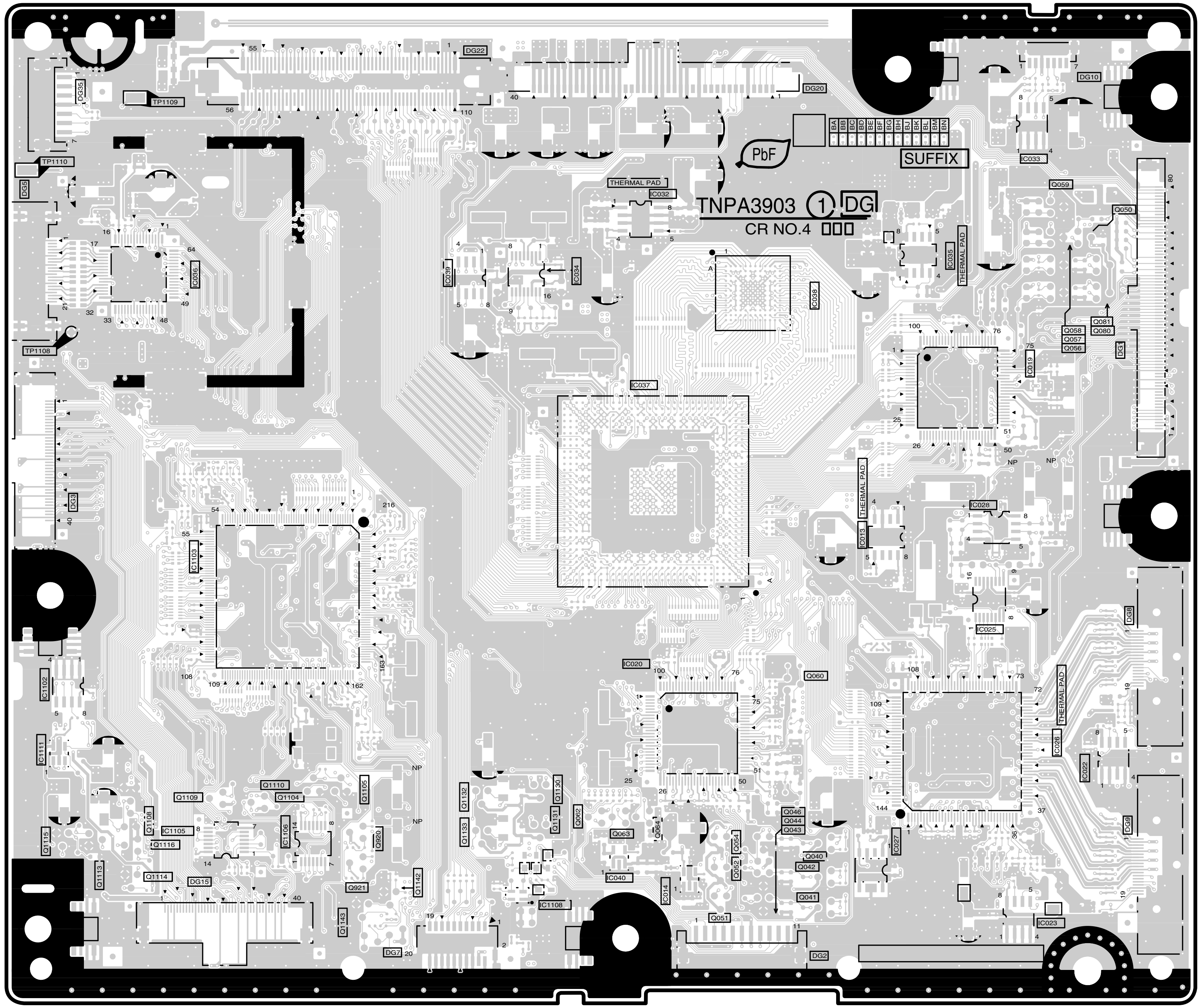
Parts Location

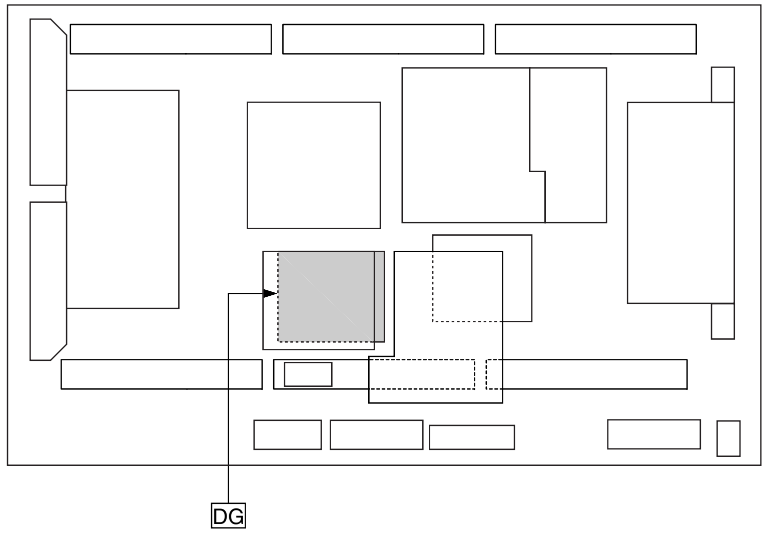
DG-BOARD (FOIL SIDE)					
IC		TRANSISTOR		TP	
IC1101	E-3	Q1100	E-3	TP1101	F-3
IC1104	F-2	Q1101	E-3	TP1102	F-3
IC1110	F-2	Q1102	E-3	TP1103	F-2
IC4016	B-3	Q1103	E-3	TP1104	F-3
IC4017	B-2	Q1106	E-2	TP1105	F-2
IC4018	B-4	Q1107	E-2	TP1106	F-2
IC4024	B-2	Q1111	F-2	TP1107	F-2
IC4029	C-4	Q1112	F-2	TP1112	A-5
IC4030	C-3	Q1125	E-3	TP1113	C-5
		Q1134	D-2	TP1114	A-5
		Q1135	D-2	TP1115	D-5
		Q1137	F-3	TP1116	D-5
		Q1139	E-4	TP1117	C-5
		Q1140	F-2	TP1118	D-5
		Q1141	F-2	TP1119	D-5
		Q4045	C-2	TP1120	F-3
		Q4061	D-2	TP1121	D-5
		Q4065	A-2	TP4028	B-4
		Q4066	A-2	TP4029	B-3
		Q4067	B-2	TP4030	B-4
		Q4068	A-3	TP4031	A-2
		Q4069	B-1	TP4032	A-1
		Q4070	B-1	TP4033	A-3
		Q4071	A-2	TP4034	A-1
		Q4073	B-3	TP4035	B-2
		Q4074	B-2	TP4036	B-1
		Q4075	A-2	TP4037	D-4
		Q4076	B-3	TP4038	A-5
		Q4077	A-2	TP4039	B-5
		Q4078	A-3	TP4040	B-5
		Q4079	A-3	TP4041	C-4
		Q4082	B-2	TP4064	B-1
		Q4083	B-2	TP4065	B-1
		Q4084	B-2	TP4066	B-2
		Q4918	E-3	TP4067	B-2
		Q4919	E-3	TP4068	A-2

TH-58PX60U
DG-BOARD TNPA3903BLS

TH-58PX60U
DG-BOARD TNPA3903BLS

DG-BOARD (COMPONENT SIDE)
TNPA3903BLS


TNPA3903 ① DG
CR NO.4
SUFFIX
PbF
THERMAL PAD
TP1108
TP1109
TP1110
IC1102
IC1103
IC1105
IC1106
IC1108
IC1111
Q1104
Q1105
Q1108
Q1109
Q1110
Q1113
Q1114
Q1115
Q1116
Q1130
Q1131
Q1132
Q1133
Q1142
Q1143
Q921
DG2
DG7
DG9
DG10
DG15
DG20
DG22
DG33
DG35



Parts Location

DG-BOARD (COMPONENT SIDE)					
IC		**TRANSISTOR**		**TP**	
IC1102	A-2	Q1104	B-2	TP1108	A-4
IC1103	B-3	Q1105	C-2	TP1109	B-5
IC1105	B-2	Q1108	B-2	TP1110	A-5
IC1106	B-2	Q1109	B-2		
IC1108	C-1	Q1110	B-2		
IC1111	A-2	Q1113	A-2		
IC4013	E-3	Q1114	B-2		
IC4014	D-1	Q1115	A-2		
IC4019	F-4	Q1116	B-2		
IC4020	D-3	Q1130	C-2		
IC4022	F-2	Q1131	C-2		
IC4023	F-2	Q1132	C-2		
IC4025	E-3	Q1133	C-2		
IC4026	F-2	Q1142	C-2		
IC4027	E-2	Q1143	B-1		
IC4028	E-3	Q4040	E-2		
IC4032	D-5	Q4041	E-1		
IC4033	F-5	Q4042	E-2		
IC4034	D-4	Q4043	E-2		
IC4035	E-5	Q4044	E-2		
IC4036	B-4	Q4046	E-2		
IC4037	D-4	Q4050	F-5		
IC4038	E-4	Q4051	D-1		
IC4039	C-4	Q4052	D-2		
IC4040	D-2	Q4054	D-2		
		Q4056	F-4		
		Q4057	F-4		
		Q4058	F-4		
		Q4059	F-5		
		Q4060	E-3		
		Q4080	F-4		
		Q4081	F-4		
		Q4920	C-2		
		Q4921	B-2		

TH-58PX60U
DG-BOARD TNPA3903BLS

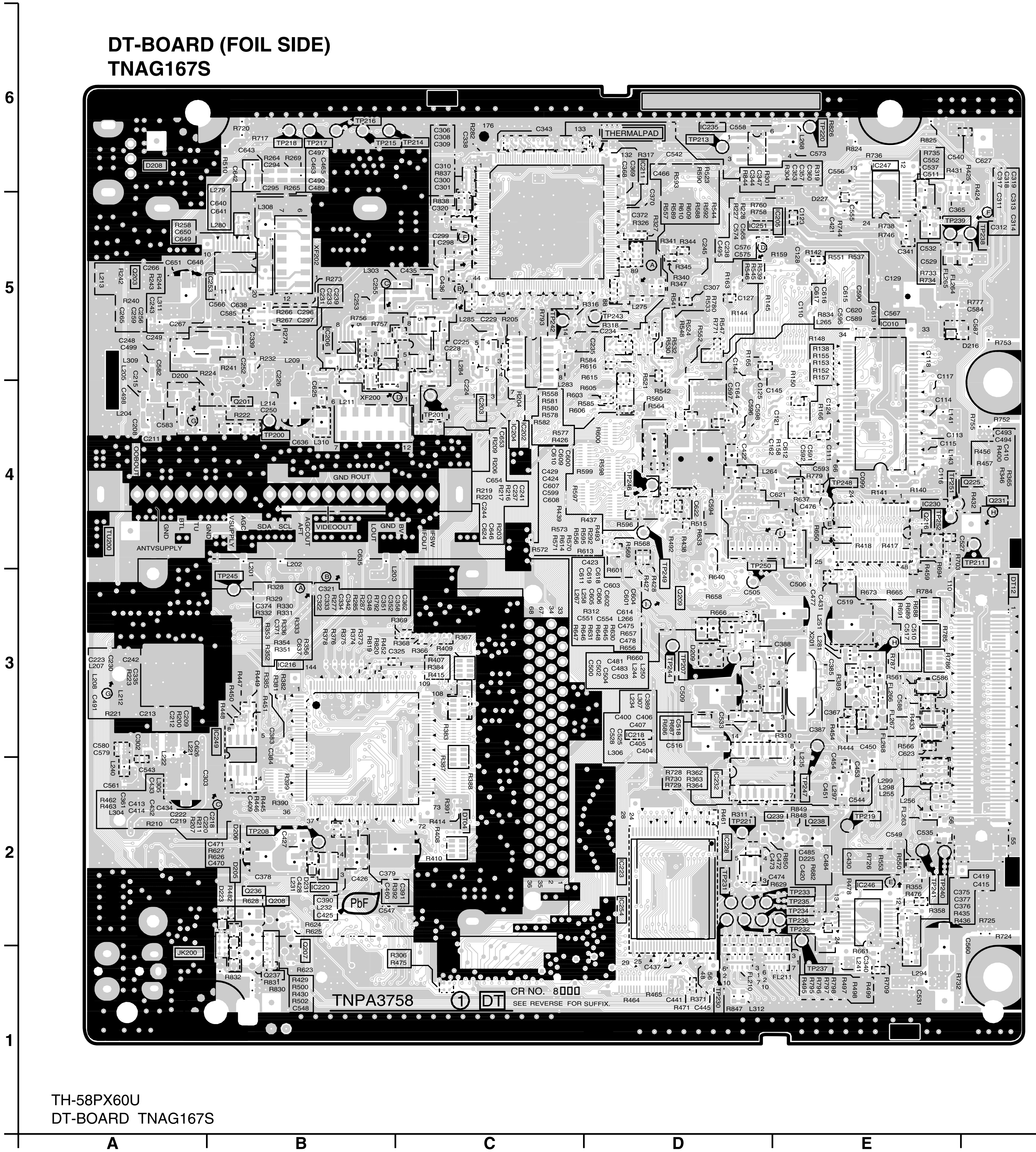
TH-58PX60U
DG-BOARD TNPA3903BLS

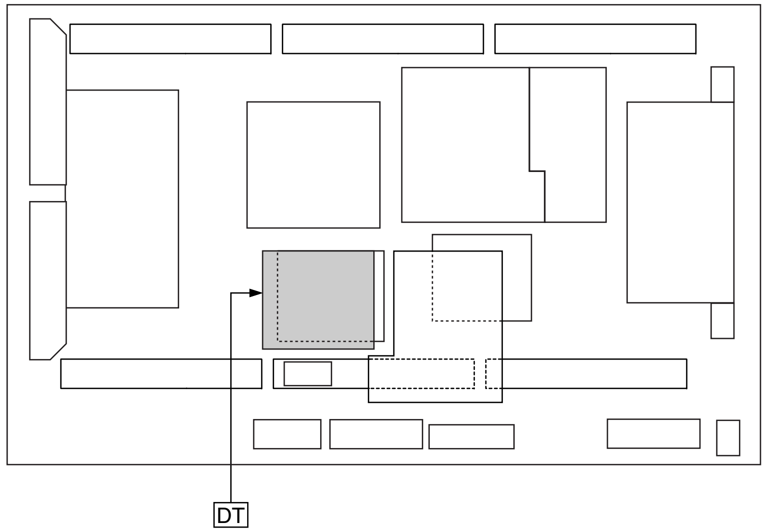
A	B	C	D	E	F	G	H	I

6
5
4
3
2
1

14.7. DT-Board

DT-BOARD (FOIL SIDE)
TNAG167S


6
5
4
3
2
1
THERMALPAD
GND ROUT
VIDEOOUT
ANTVSUPPLY
PbF
TNPA3758
① DT
CR NO. 8□□□
SEE REVERSE FOR SUFFIX.



Parts Location

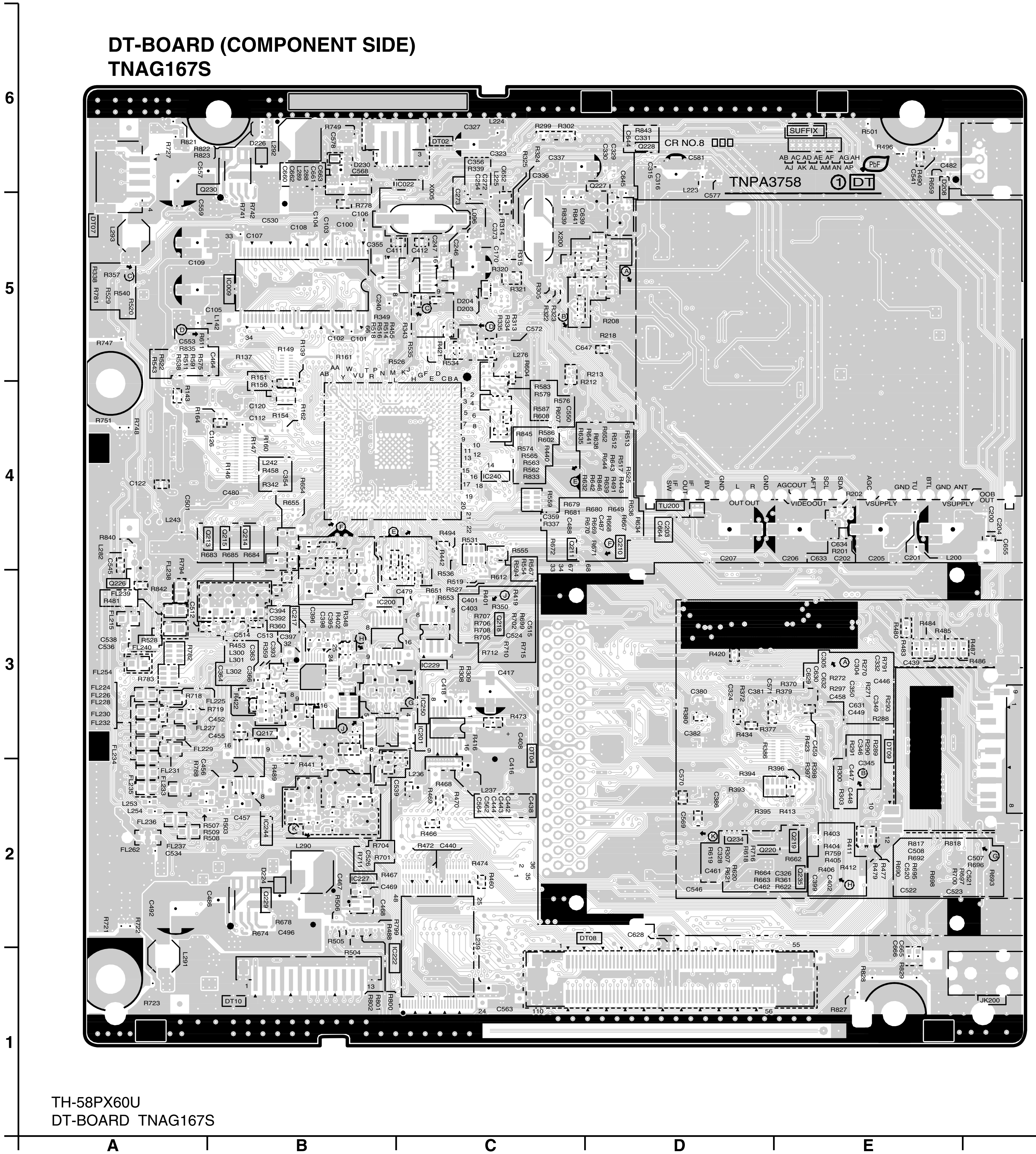
DT-BOARD (FOIL SIDE)

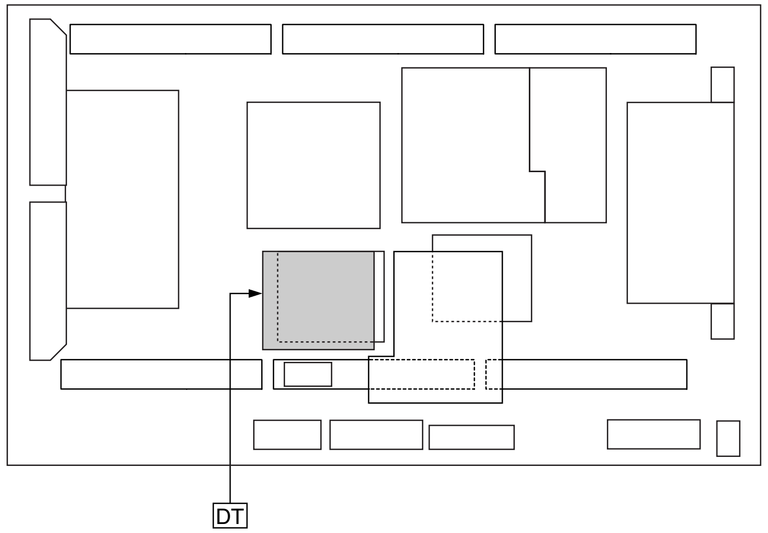
IC	
IC8202	C-4
IC8203	C-4
IC8204	C-4
IC8205	E-5
IC8206	B-5
IC8211	D-6
IC8216	B-3
IC8218	D-3
IC8220	B-2
IC8223	D-2
IC8228	D-2
IC8230	E-4
IC8232	D-2
IC8235	D-6
IC8246	E-2
IC8247	E-6
IC8249	B-3
IC8251	D-5
IC8253	B-5
IC8254	D-2
IC8010	E-5

TRANSISTOR	
Q8201	B-4
Q8203	A-5
Q8207	B-1
Q8208	B-2
Q8209	D-3
Q8216	E-4
Q8225	F-4
Q8231	F-4
Q8236	B-2
Q8237	B-1
Q8238	E-2
Q8239	E-2

TP	
TP8200	B-4
TP8201	C-4
TP8207	D-3
TP8208	B-2
TP8211	F-4
TP8213	D-6
TP8214	C-6
TP8215	B-6
TP8216	B-6
TP8217	B-6
TP8218	B-6
TP8219	E-2
TP8220	E-6
TP8221	D-2
TP8230	D-1
TP8231	D-2
TP8232	E-2
TP8233	E-2
TP8234	E-2
TP8235	E-2
TP8236	E-2
TP8237	E-2
TP8238	F-5
TP8239	E-5
TP8240	E-2
TP8241	E-2
TP8242	C-5
TP8243	D-5
TP8244	D-3
TP8245	B-3
TP8246	D-4
TP8247	E-2
TP8248	E-4
TP8249	D-4
TP8250	D-4
TP8251	E-4
TP8252	E-4

DT-BOARD (COMPONENT SIDE)
TNAG167S


6
5
4
3
2
1
A
B
C
D
E
F
G
H
I
TNPA3758
① DT
CR NO.8
SUFFIX
PbF
TU200
JK200
DT08
DT10
DT02
DT04
DT07
DT09
IC022
IC009
IC200
IC201
IC229
IC240
IC250
IC227
IC222
GND
AGCOUT
VIDEOOUT
VSUPPLY
OUT OUT
OOB OUT
GND ANT



Parts Location

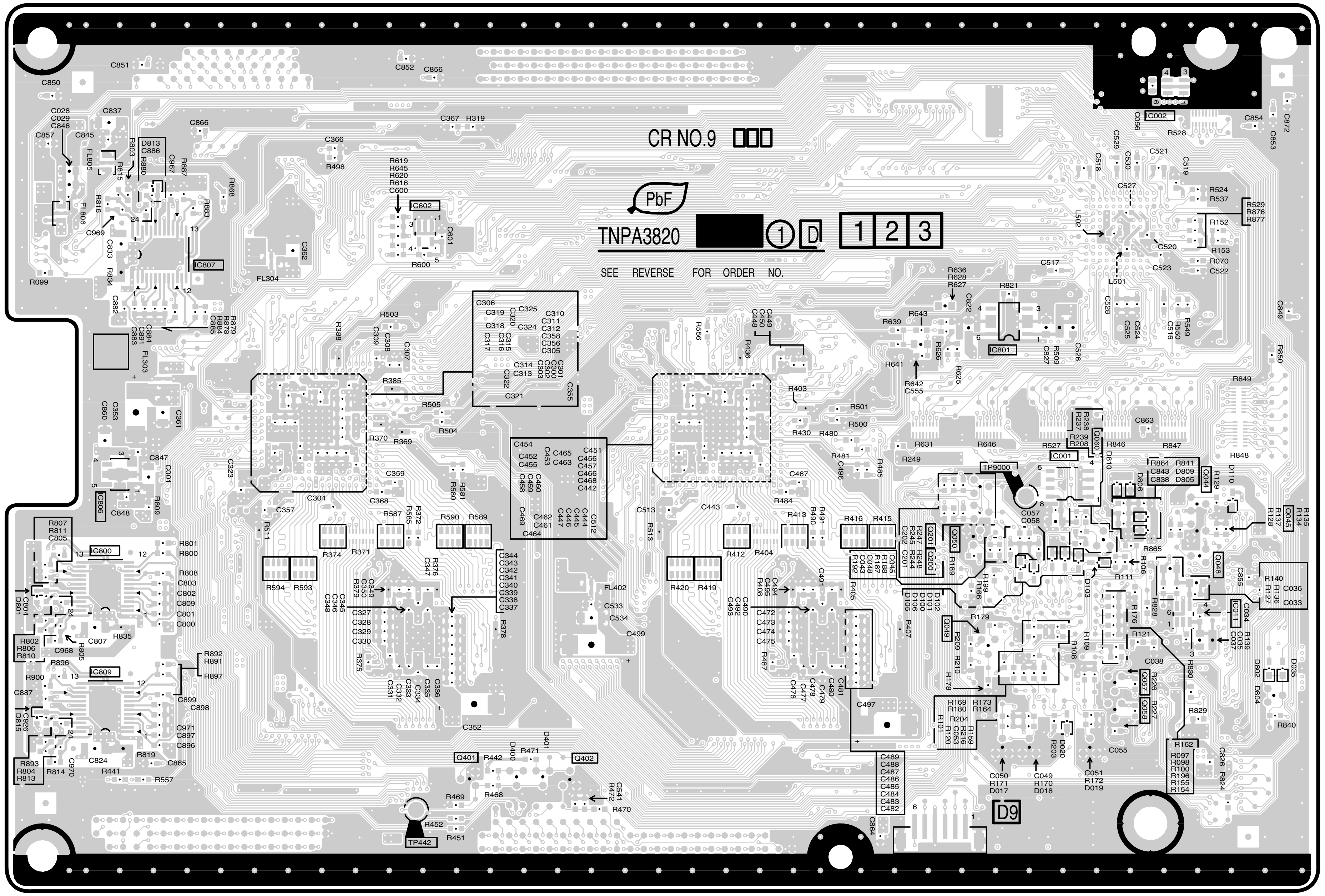
DT-BOARD (COMPONENT SIDE)			
IC		TRANSISTOR	
IC8200	B-3	Q8210	D-4
IC8201	C-3	Q8211	C-4
IC8217	B-3	Q8213	B-4
IC8222	C-1	Q8214	B-4
IC8227	B-2	Q8215	B-4
IC8229	C-3	Q8217	B-3
IC8240	C-4	Q8218	C-3
IC8244	B-2	Q8219	E-2
IC8250	C-3	Q8220	D-2
IC8009	B-5	Q8226	A-3
IC8022	C-6	Q8227	D-6
		Q8228	D-6
		Q8229	B-2
		Q8230	B-6
		Q8234	D-2
		Q8235	E-2

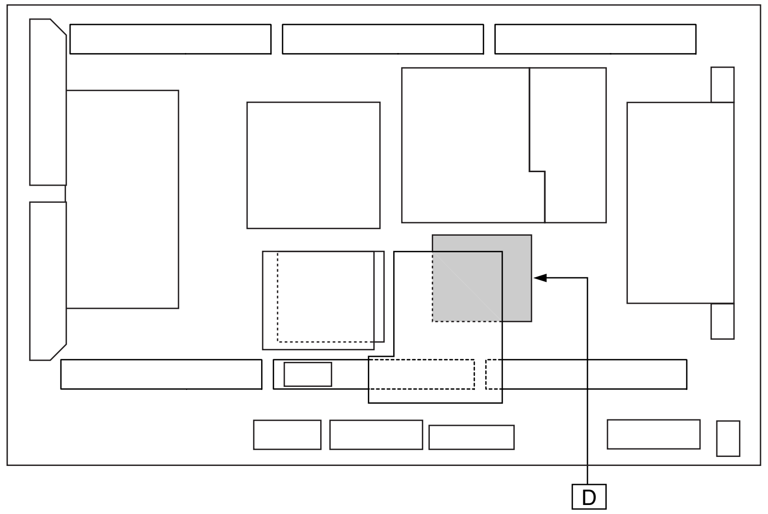
TH-58PX60U
DT-BOARD TNAG167S

TH-58PX60U
DT-BOARD TNAG167S

14.8. D-Board

D-BOARD (FOIL SIDE)
TNPA3820AHS


CR NO.9
PbF
TNPA3820
① D
1 2 3
SEE REVERSE FOR ORDER NO.
IC602
IC807
IC801
IC800
IC809
IC806
IC001
IC002
TP9000
TP442
Q401
Q402
D9
6
5
4
3
2
1
A
B
C
D
E
F
G
H
I



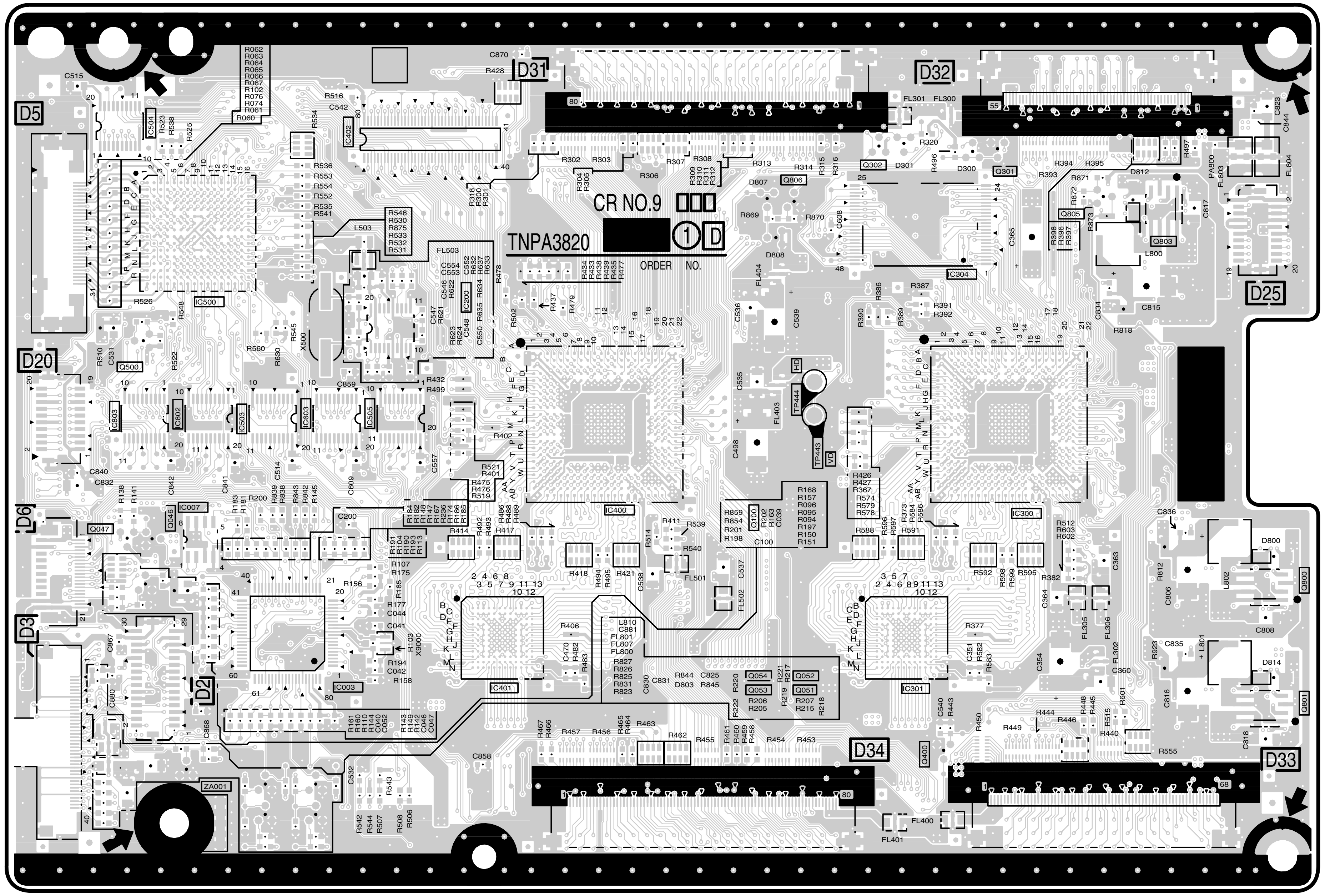
TH-58PX60U
D-BOARD TNPA3820AHS

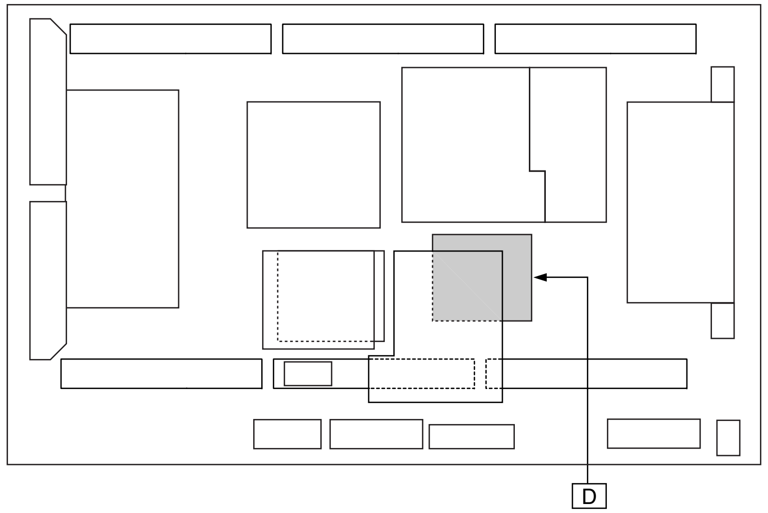
TH-58PX60U
D-BOARD TNPA3820AHS

Parts Location

D-BOARD(FOIL SIDE)			
IC		Q9200	E-3
IC9001	F-3	Q9201	E-3
IC9002	F-5	Q9400	E-2
IC9011	G-2	Q9401	C-2
IC9602	C-4	Q9402	D-2
IC9800	A-3	Q9500	A-3
IC9801	E-4	Q9800	G-2
IC9806	A-3	Q9801	G-2
IC9807	B-4	Q9803	F-4
IC9809	A-2	Q9805	F-4
		Q9806	E-4
TRANSISTOR		**TP**	
Q9044	F-3	TP442	C-1
Q9045	G-3	TP9000	E-3
Q9048	F-3		
Q9049	E-2		
Q9050	E-3		
Q9057	F-2		
Q9058	F-2		
Q9060	F-3		

D-BOARD (COMPONENT SIDE)
TNPA3820AHS


D5
D20
D6
D3
D2
D31
D32
D25
D34
D33
CR NO.9
TNPA3820
ORDER NO.
1
D
IC500
IC400
IC300
IC401
IC301
IC003
IC304
TP443
TP444
ZA001
6
5
4
3
2
1
A
B
C
D
E
F
G
H
I



Parts Location

D-BOARD(COMPONENT SIDE)			
IC		**TRANSISTOR**	
IC9003	B-2	Q9046	B-3
IC9007	B-3	Q9047	A-3
IC9200	C-4	Q9051	E-2
IC9300	F-3	Q9052	E-2
IC9301	E-2	Q9053	D-2
IC9304	E-4	Q9054	D-2
IC9400	D-3	Q9100	D-3
IC9401	C-2	Q9301	E-4
IC9402	B-4	Q9302	E-4
IC9500	B-4	**TP**	
IC9503	B-3	TP443	E-3
IC9504	B-5	TP444	E-3
IC9505	C-3		
IC9603	B-3		
IC9802	B-3		
IC9803	A-3		

TH-58PX60U
D-BOARD TNPA3820AHS

TH-58PX60U
D-BOARD TNPA3820AHS

14.9. C1-Board

6

5

4

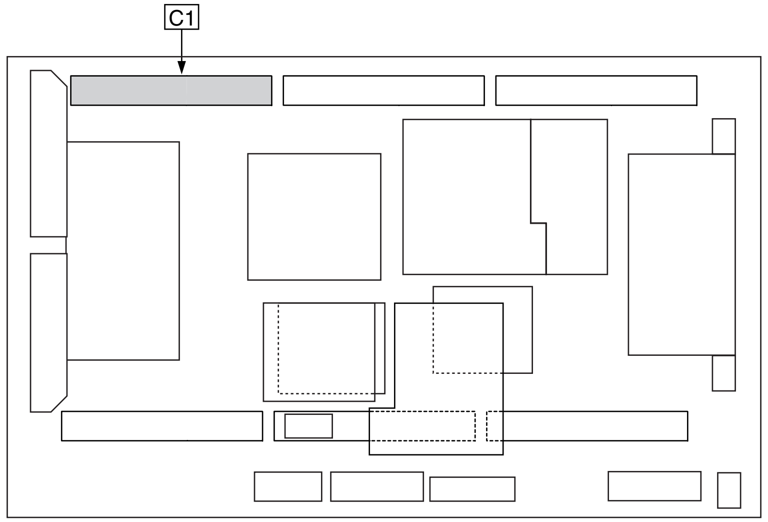
3

2

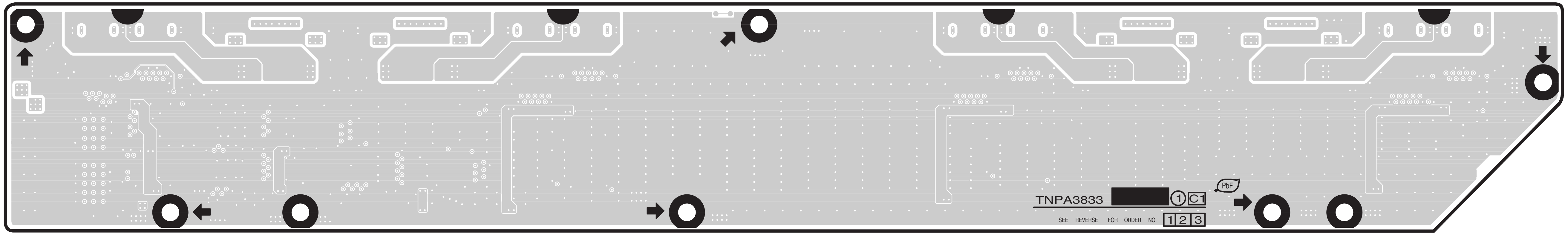
1

Parts Location

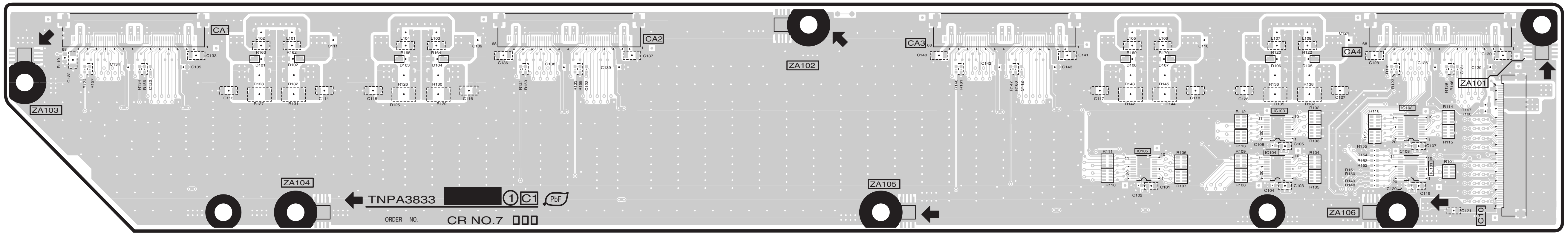
C1-BOARD	
IC	
IC7101	I-1
IC7102	I-2
IC7103	H-2
IC7104	H-1
IC7105	G-1



C1-BOARD (FOIL SIDE)
TXNC11DNTUJ


TNPA3833
① C1
PbF
SEE REVERSE FOR ORDER NO.
1 2 3

C1-BOARD (COMPONENT SIDE)
TXNC11DNTUJ


CA1
CA2
CA3
CA4
ZA101
ZA102
ZA103
ZA104
ZA105
ZA106
TNPA3833
① C1
PbF
ORDER NO.
CR NO.7

TH-58PX60U
C1-BOARD TXNC11DNTUJ

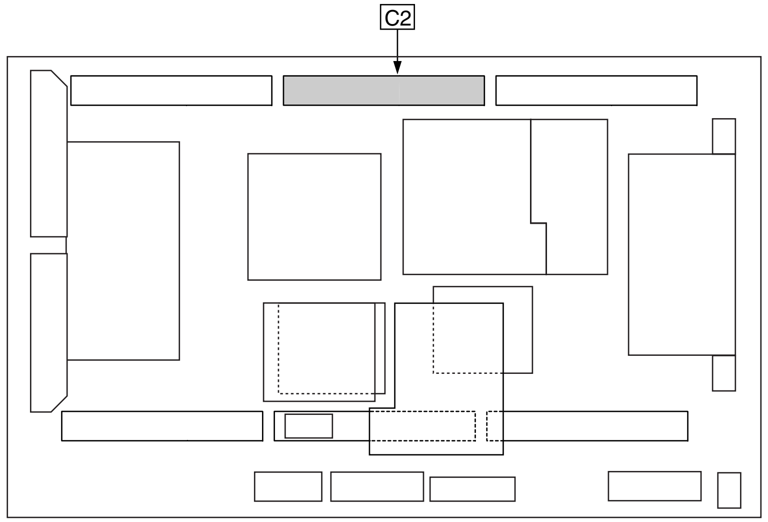
TH-58PX60U
C1-BOARD TXNC11DNTUJ

A B C D E F G H I

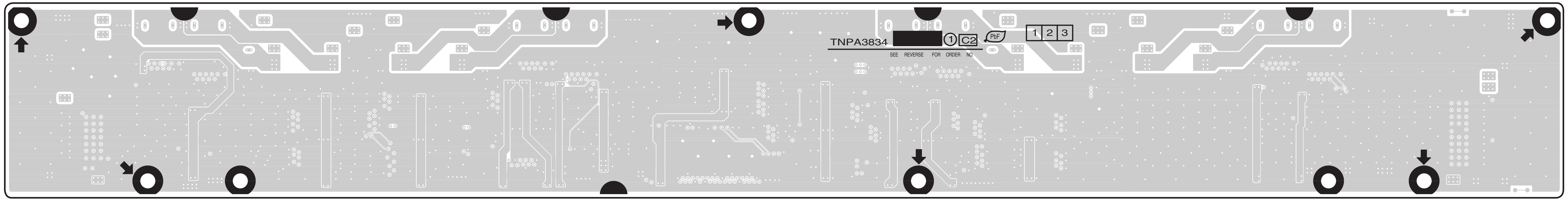
14.10. C2-Board

Parts Location

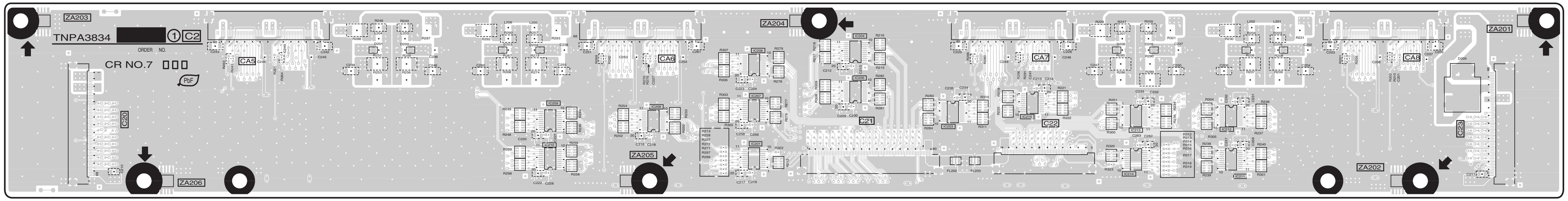
C2-BOARD	
IC	
IC7201	E-1
IC7203	F-2
IC7204	F-2
IC7205	F-2
IC7206	E-2
IC7207	E-2
IC7208	D-2
IC7209	D-2
IC7210	D-1
IC7211	H-1
IC7212	H-2
IC7213	G-2
IC7214	G-2
IC7215	G-1



C2-BOARD (FOIL SIDE)
TXNC21DNTUJ


TNPA3834
① C2
PbF
1 2 3
SEE REVERSE FOR ORDER NO.

C2-BOARD (COMPONENT SIDE)
TXNC21DNTUJ


ZA203
TNPA3834
① C2
ORDER NO.
CR NO.7
PbF
CA5
CA6
ZA204
CA7
CA8
ZA201
C20
ZA206
ZA205
C21
C22
ZA202
C23

TH-58PX60U
C2-BOARD TXNC21DNTUJ

TH-58PX60U
C2-BOARD TXNC21DNTUJ

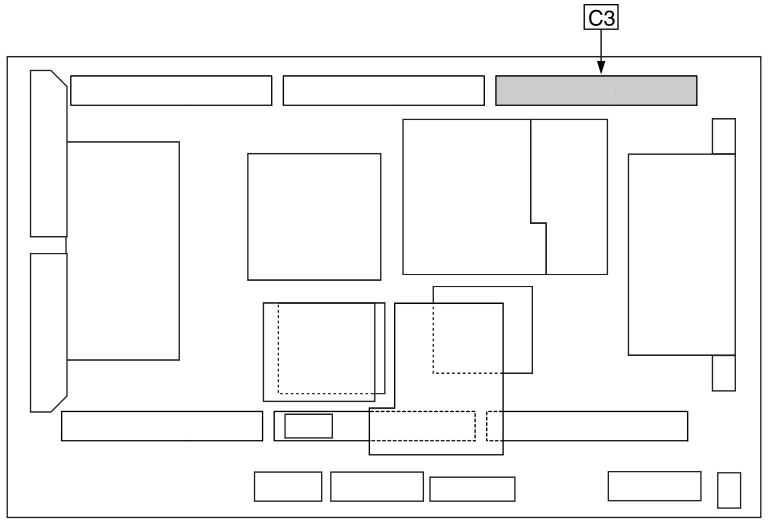
6
5
4
3
2
1

A B C D E F G H I

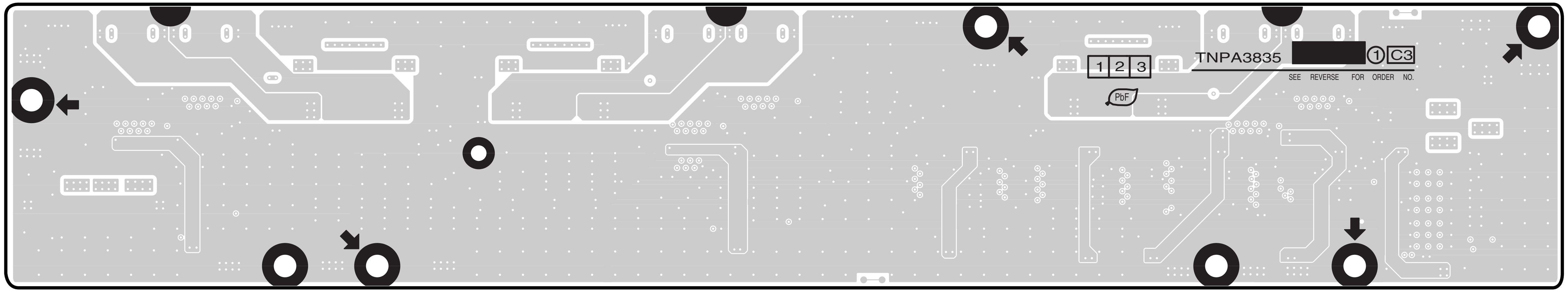
14.11. C3-Board

Parts Location

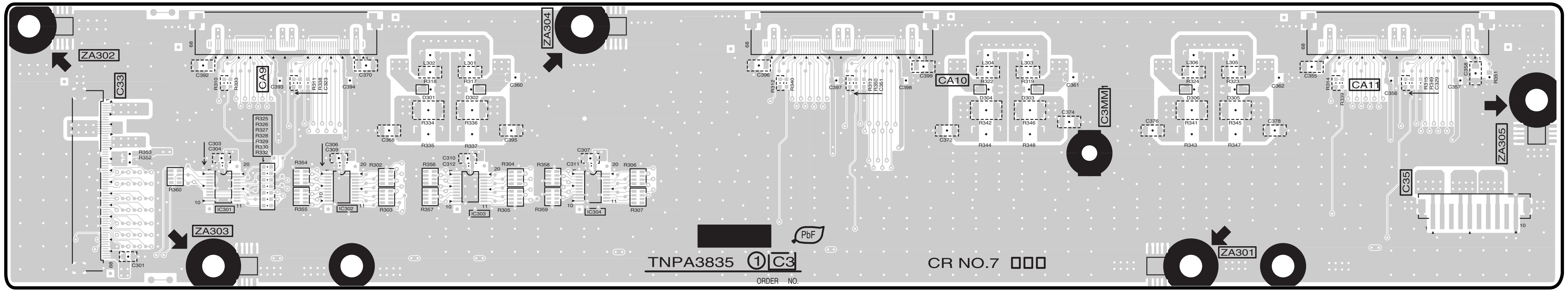
C3-BOARD	
IC	
IC7301	B-1
IC7302	C-1
IC7303	C-1
IC7304	D-1



C3-BOARD (FOIL SIDE)
TXNC31DNTUJ


TNPA3835
①C3
1 2 3
SEE REVERSE FOR ORDER NO.
PbF

C3-BOARD (COMPONENT SIDE)
TXNC31DNTUJ


ZA302
C33
CA9
ZA304
CA10
C3MM
CA11
ZA305
C35
ZA303
IC301
IC302
IC303
IC304
PbF
TNPA3835 ①C3
ORDER NO.
CR NO.7
ZA301

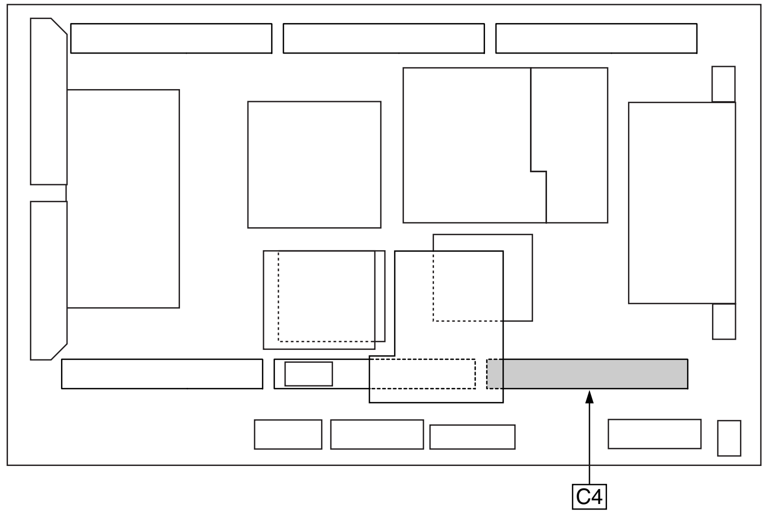
TH-58PX60U
C3-BOARD TXNC31DNTUJ

TH-58PX60U
C3-BOARD TXNC31DNTUJ

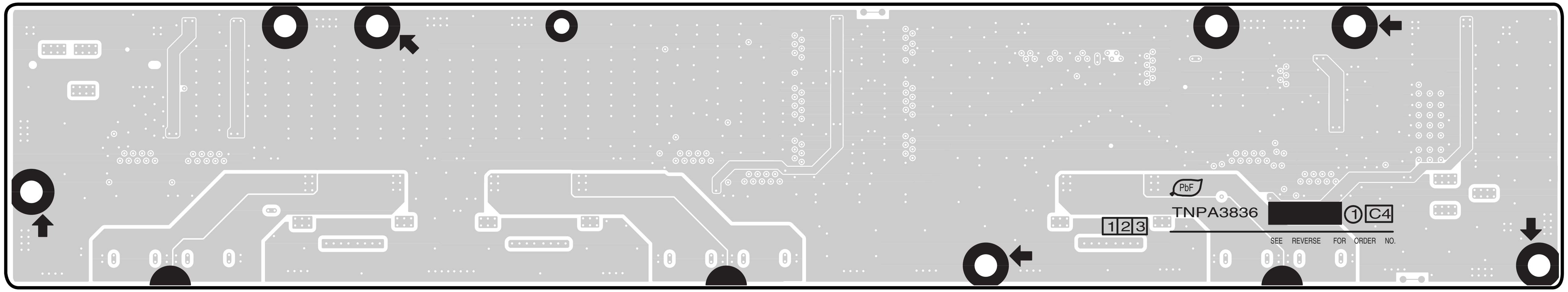
14.12. C4-Board

Parts Location

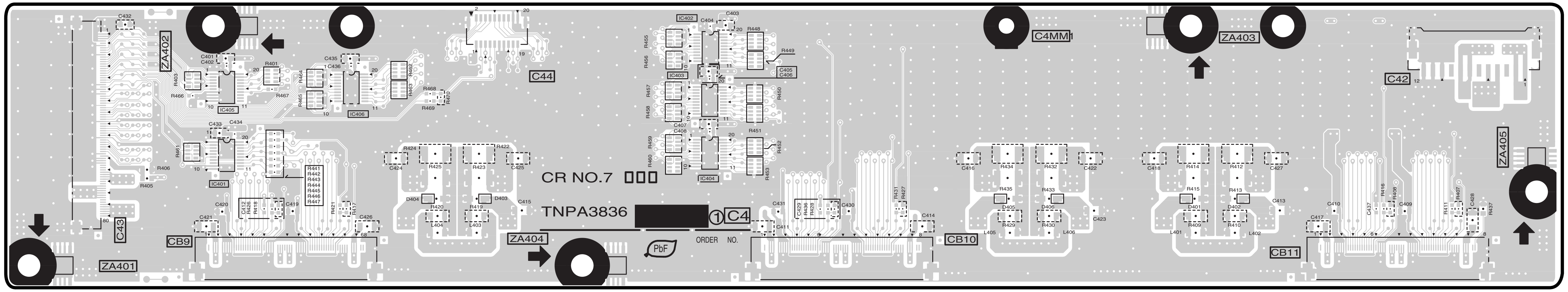
C4-BOARD	
IC	
IC7401	B-1
IC7402	D-2
IC7403	D-2
IC7404	E-1
IC7405	B-2
IC7406	C-2



C4-BOARD (FOIL SIDE)
TXNC41DNTUJ


PbF
1 2 3
TNPA3836
① C4
SEE REVERSE FOR ORDER NO.

C4-BOARD (COMPONENT SIDE)
TXNC41DNTUJ


ZA401
ZA402
ZA403
ZA404
ZA405
C43
CB9
CB10
CB11
C44
C4MM
C42
IC401
IC402
IC403
IC404
IC405
IC406
CR NO.7
TNPA3836
① C4
PbF
ORDER NO.

TH-58PX60U
C4-BOARD TXNC41DNTUJ

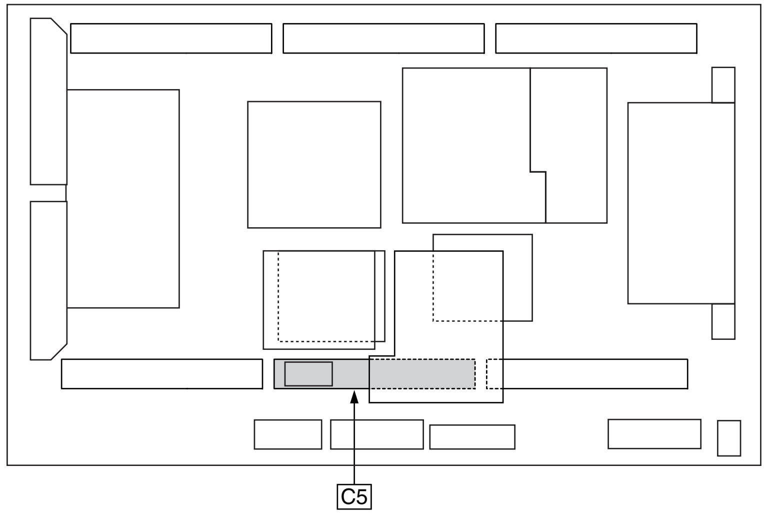
TH-58PX60U
C4-BOARD TXNC41DNTUJ

6
5
4
3
2
1
A
B
C
D
E
F
G
H
I

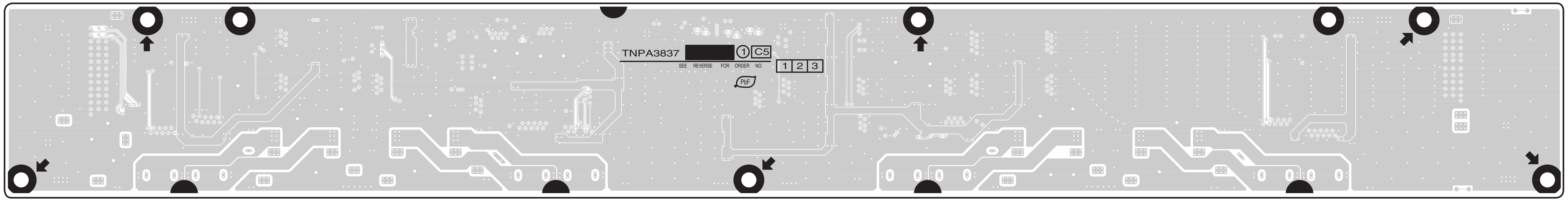
14.13. C5-Board

Parts Location

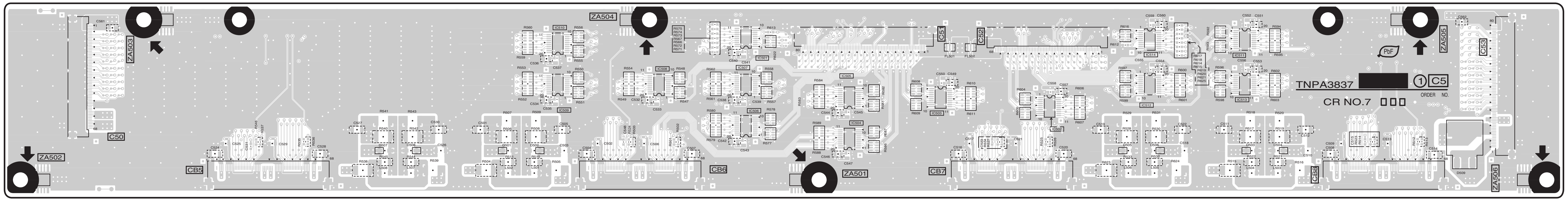
C5-BOARD	
IC	
IC7501	E-2
IC7502	G-2
IC7503	F-2
IC7504	F-2
IC7505	F-2
IC7506	E-2
IC7507	E-2
IC7508	D-2
IC7509	D-2
IC7510	D-2
IC7511	H-2
IC7512	G-2
IC7513	H-2
IC7514	G-2



C5-BOARD (FOIL SIDE)
TXNC51DNTUJ


TNPA3837
① C5
SEE REVERSE FOR ORDER NO.
1 2 3
PbF

C5-BOARD (COMPONENT SIDE)
TXNC51DNTUJ


ZA504
ZA503
C51
C52
ZA505
C53
PbF
TNPA3837
① C5
ORDER NO.
CR NO.7
C50
ZA502
CB5
CB6
ZA501
CB7
CB8
ZA506

6
5
4
3
2
1

TH-58PX60U
C5-BOARD TXNC51DNTUJ

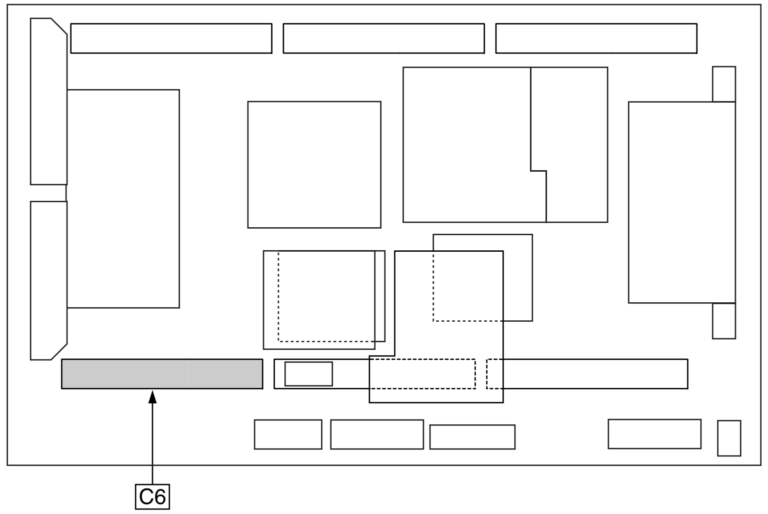
TH-58PX60U
C5-BOARD TXNC51DNTUJ

A B C D E F G H I

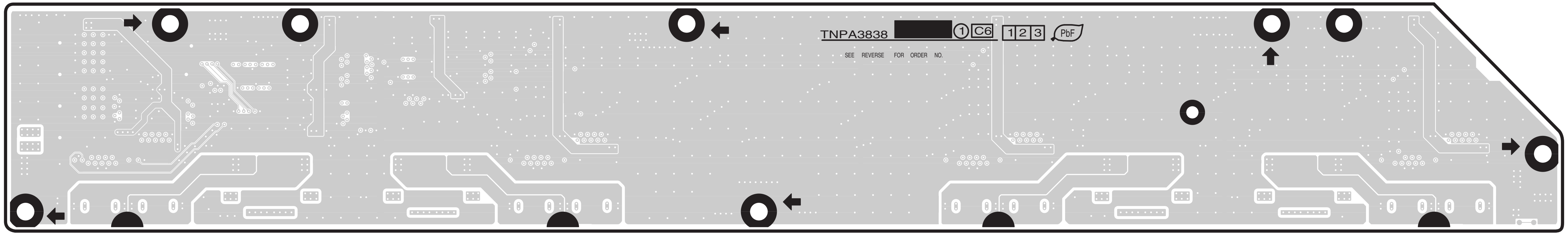
14.14. C6-Board

Parts Location

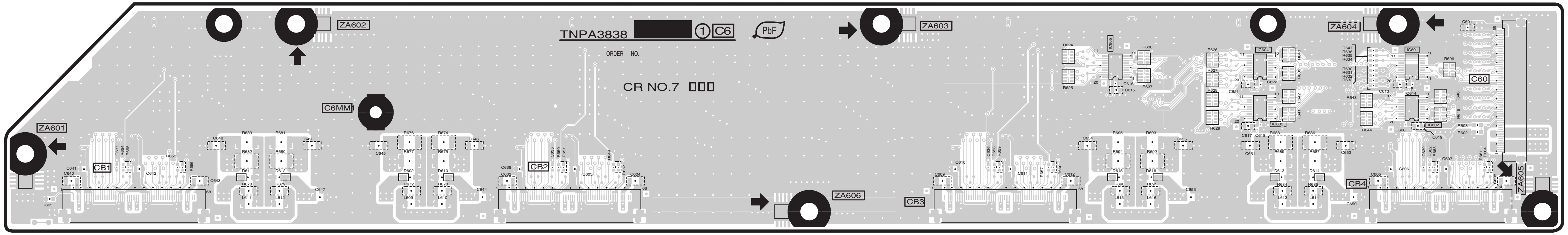
C6-BOARD	
IC	
IC7601	I-2
IC7602	I-2
IC7603	H-2
IC7604	H-2
IC7605	G-2



C6-BOARD (FOIL SIDE)
TXNC61DNTUJ


TNPA3838
① C6
1 2 3
PbF
SEE REVERSE FOR ORDER NO.

C6-BOARD (COMPONENT SIDE)
TXNC61DNTUJ

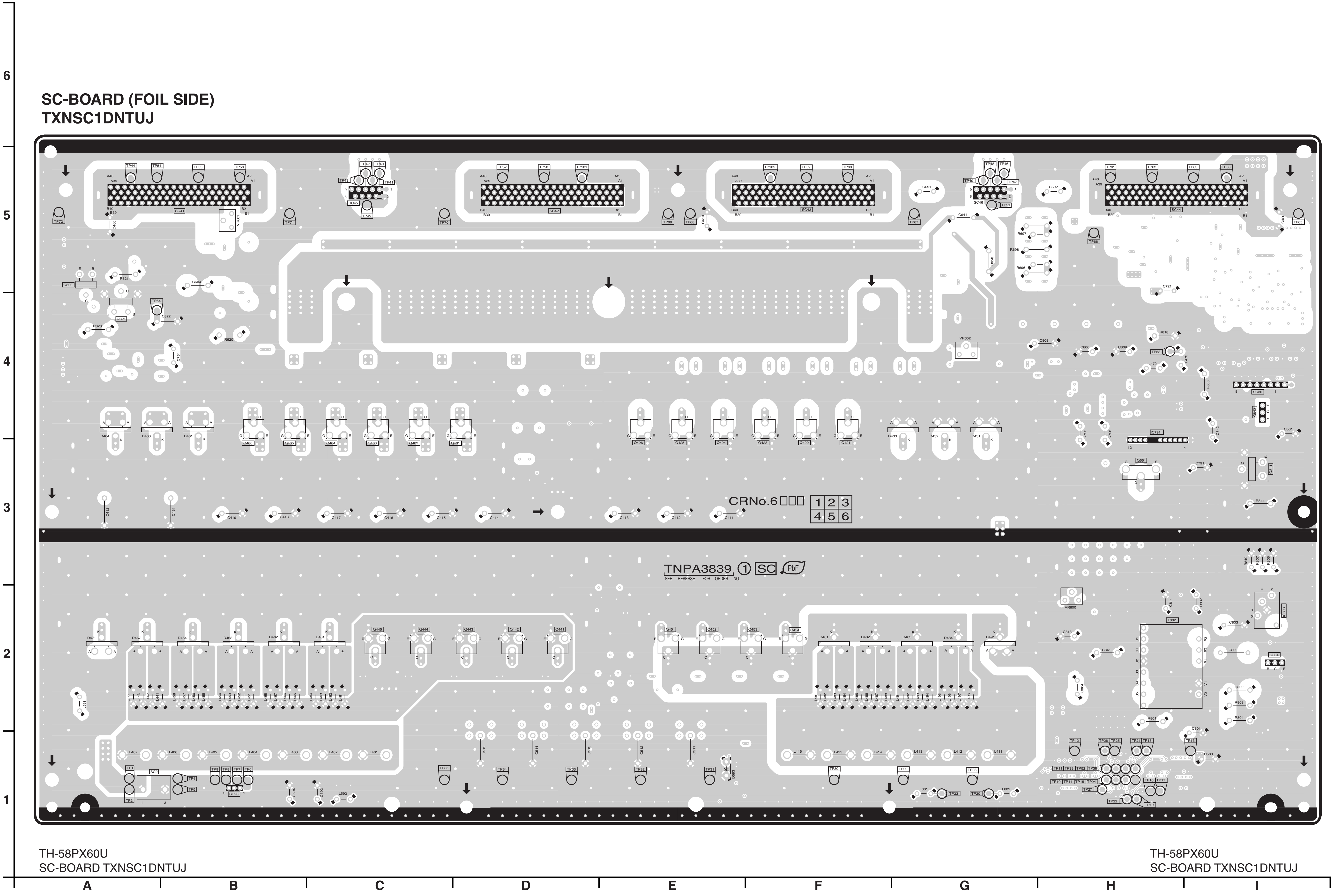

TNPA3838
① C6
PbF
ORDER NO.
CR NO.7
ZA601
ZA602
ZA603
ZA604
ZA605
ZA606
C6MM
CB1
CB2
CB3
CB4
C60

TH-58PX60U
C6-BOARD TXNC61DNTUJ

TH-58PX60U
C6-BOARD TXNC61DNTUJ

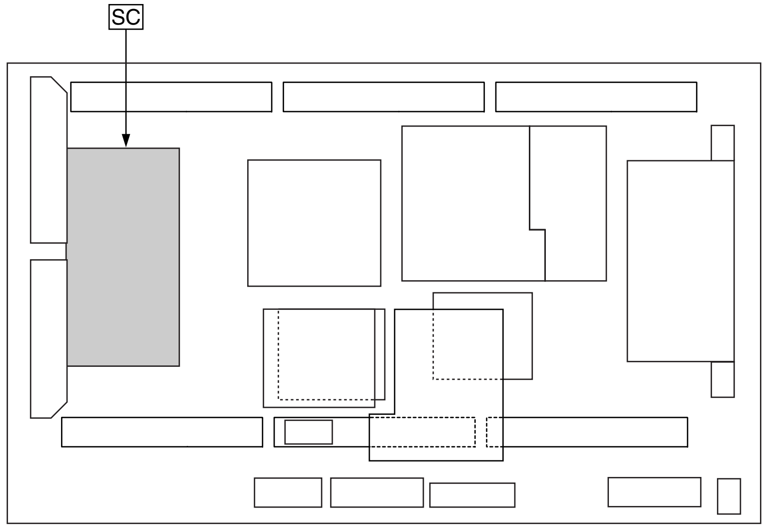
14.15. SC-Board

SC-BOARD (FOIL SIDE)
TXNSC1DNTUJ


6
5
4
3
2
1
A
B
C
D
E
F
G
H
I
SC41
SC42
SC43
SC44
SC45
SC46
SC30
SC2
SC20
CRNo.6
1 2 3
4 5 6
TNPA3839 ① SC PbF
SEE REVERSE FOR ORDER NO.
T602
VR600
VR602

TH-58PX60U
SC-BOARD TXNSC1DNTUJ

TH-58PX60U
SC-BOARD TXNSC1DNTUJ



Parts Location

SC-BOARD (FOIL SIDE)

IC	
IC6791	H-4
IC6803	I-2

TRANSISTOR	
Q6401	D-3
Q6402	C-3
Q6403	C-3
Q6404	C-3
Q6405	B-3
Q6406	B-3
Q6421	F-3
Q6422	F-3
Q6423	F-3
Q6424	E-3
Q6425	E-3
Q6426	E-3
Q6441	D-2
Q6442	D-2
Q6443	D-2
Q6444	C-2
Q6445	C-2
Q6452	E-2
Q6453	F-2
Q6454	F-2
Q6461	E-2
Q6661	H-3
Q6804	I-2
Q6821	A-4
Q6822	A-5
Q6841	I-3
Q6842	I-4

TP	
TP1	A-1
TP2	A-1
TP4	B-1
TP5	B-1
TP6	B-1
TP7	B-1
TP8	B-1
TP9	B-1
TP10	H-1
TP11	H-1
TP12	H-1
TP13	I-1
TP14	H-1
TP15	H-1
TP16	H-1
TP17	H-1
TP18	H-1
TP19	H-1
TP20	G-1
TP21	H-1
TP22	H-1
TP23	G-1
TP24	H-1
TP25	H-1
TP26	H-1
TP27	H-1
TP28	G-1
TP29	G-1
TP30	F-1
TP31	E-1
TP32	E-1
TP33	D-1
TP34	D-1
TP35	C-1
TP38	H-1
TP39	H-1
TP40	C-5
TP41	C-5
TP42	C-5
TP43	C-5
TP44	A-5
TP45	C-5
TP46	G-5
TP47	G-5
TP48	G-5
TP49	G-5
TP50	I-5
TP51	G-5
TP52	H-1
TP53	H-4
TP54	A-5
TP55	B-5
TP56	B-5
TP57	D-5
TP58	D-5
TP59	F-5
TP60	F-5
TP61	H-5
TP62	H-5
TP63	I-5
TP64	A-4
TP65	I-5
TP66	H-5
TP67	G-5
TP68	E-5
TP69	E-5
TP70	C-5
TP71	B-5
TP72	A-5
TP101	D-5
TP102	F-5

VOLUME	
VR6600	H-3
VR6601	B-5
VR6602	G-4

Parts Location

SC-BOARD (COMPONENT SIDE)

IC	
IC6471	A-4
IC6472	A-4
IC6501	F-3
IC6521	F-2
IC6561	B-1
IC6562	B-1
IC6581	D-1
IC6601	H-5
IC6602	A-4
IC6610	A-4
IC6671	B-4
IC6681	B-5
IC6682	A-4
IC6721	A-5
IC6722	A-5
IC6724	A-5
IC6725	A-5
IC6751	I-4
IC6752	H-4
IC6753	I-4
IC6771	B-4
IC6772	C-4
IC6773	B-4
IC6774	B-4
IC6791	B-3
IC6801	B-3
IC6802	B-4
IC6803	A-2
IC6821	I-5
IC6841	A-4
IC6861	B-5
IC6871	B-5

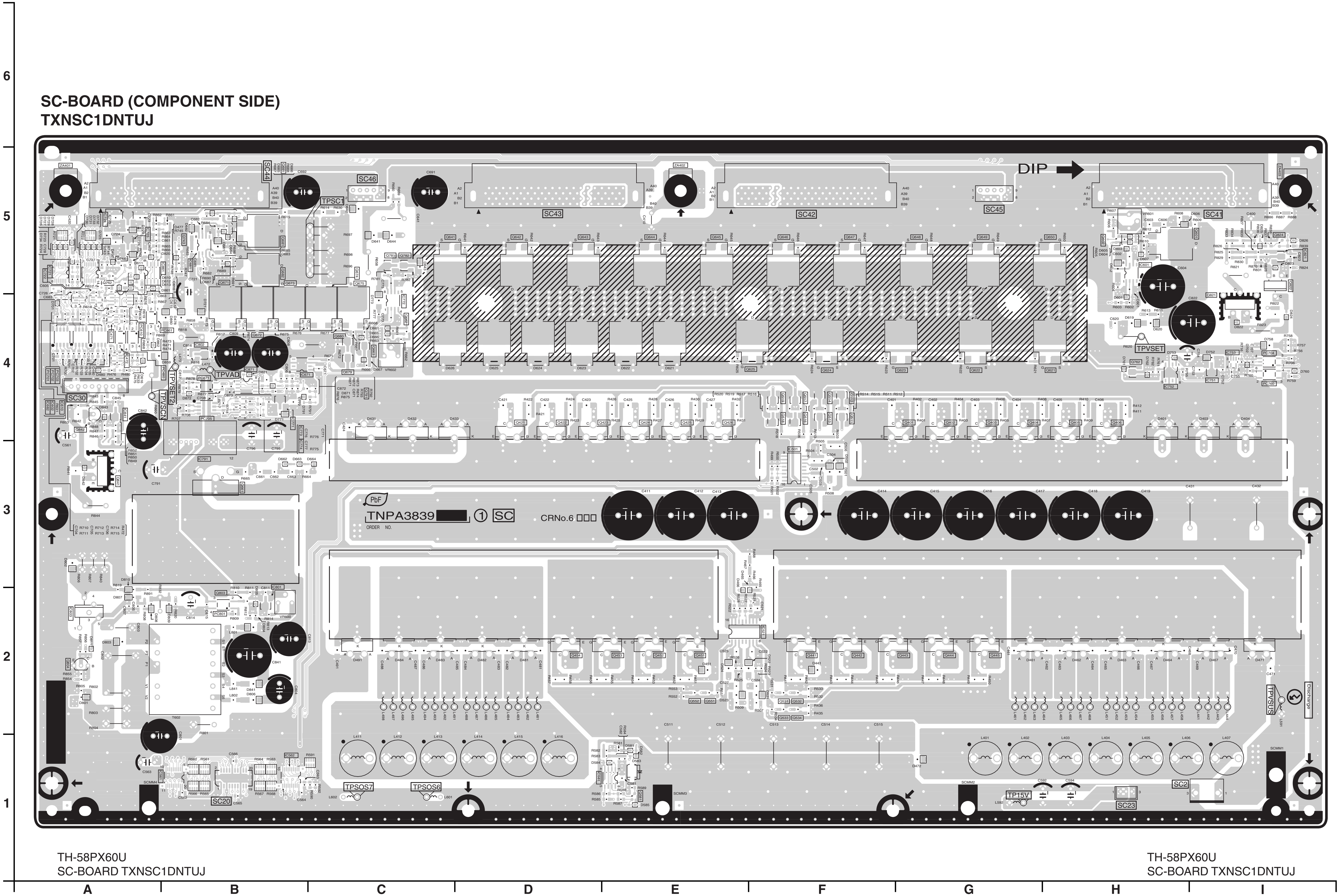
TRANSISTOR	
Q6401	G-4
Q6402	G-4
Q6403	G-4
Q6404	G-4
Q6405	H-4
Q6406	H-4
Q6421	D-4
Q6422	D-4
Q6423	E-4
Q6424	E-4
Q6425	E-4
Q6426	E-4
Q6441	F-2
Q6442	F-2
Q6443	G-2
Q6444	G-2
Q6445	G-2
Q6451	E-2
Q6452	E-2
Q6453	E-2
Q6454	D-2
Q6511	F-4
Q6512	F-4
Q6513	F-4
Q6514	F-4
Q6516	F-4
Q6517	F-4
Q6518	F-4
Q6519	F-4
Q6531	F-2
Q6532	F-2
Q6533	F-2
Q6534	F-2
Q6551	E-2
Q6552	E-2
Q6581	E-1
Q6601	I-5
Q6602	H-5
Q6621	H-4
Q6622	G-4
Q6623	G-4
Q6624	F-4
Q6625	F-4
Q6641	C-5
Q6642	D-5
Q6643	D-5
Q6644	E-5
Q6645	E-5
Q6646	F-5
Q6647	F-5
Q6648	G-5
Q6649	G-5
Q6650	H-5
Q6661	B-3
Q6662	C-4
Q6663	C-4
Q6671	B-5
Q6672	B-4
Q6673	B-5
Q6674	C-5
Q6675	C-5
Q6679	C-4
Q6680	C-4
Q6681	B-5
Q6682	B-5
Q6691	B-5
Q6742	A-5
Q6743	B-5
Q6744	A-5
Q6762	H-4
Q6781	C-5
Q6782	C-5
Q6791	C-4
Q6803	B-2
Q6804	A-2
Q6821	I-5
Q6822	I-5
Q6824	I-5
Q6841	A-3
Q6842	A-4

TP	
TP15V	G-1
TPSOS6	C-1
TPSOS7	C-1
TPVSCN	B-4
TPVSET	H-4
TPVSET2	B-4
TPVSUS	I-2

VOLUME	
VR6600	B-2
VR6601	H-5
VR6602	C-4

PHOTO COUPLER	
PC6480	B-4
PC6610	A-4
PC6701	A-4
PC6702	A-4
PC6703	A-4
PC6704	I-4
PC6705	B-4
PC6760	I-4
PC6801	B-2
PC6861	B-4
PC6871	B-4

SC-BOARD (COMPONENT SIDE)
TXNSC1DNTUJ


6
5
4
3
2
1
A
B
C
D
E
F
G
H
I
DIP
SC41
SC42
SC43
SC44
SC45
SC46
SC30
SC20
SC23
SC2
TPSC1
TPVAD
TPVSET
TPVSUS
TPSOS7
TPSOS6
TP15V
TNPA3839
SC
CRNo.6
Discharge

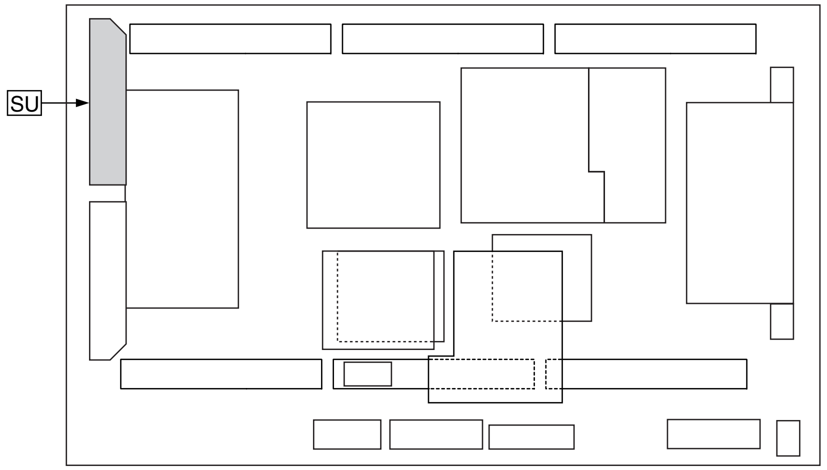
TH-58PX60U
SC-BOARD TXNSC1DNTUJ

TH-58PX60U
SC-BOARD TXNSC1DNTUJ

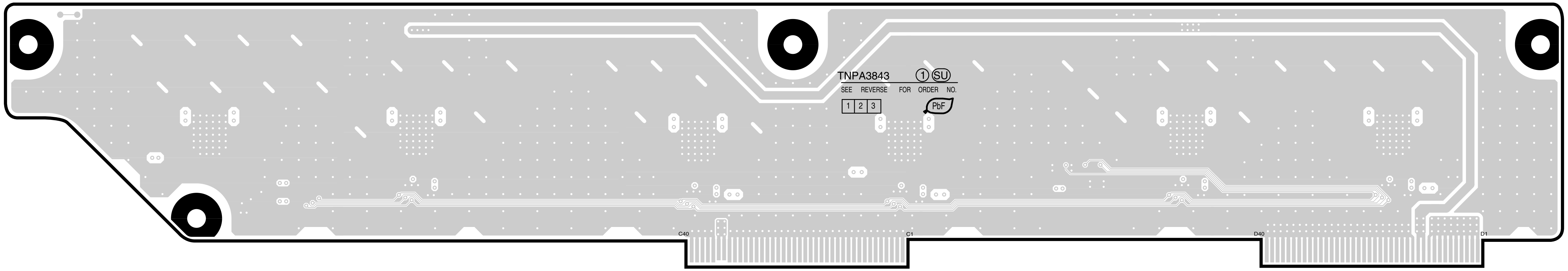
14.16. SU-Board

Parts Location

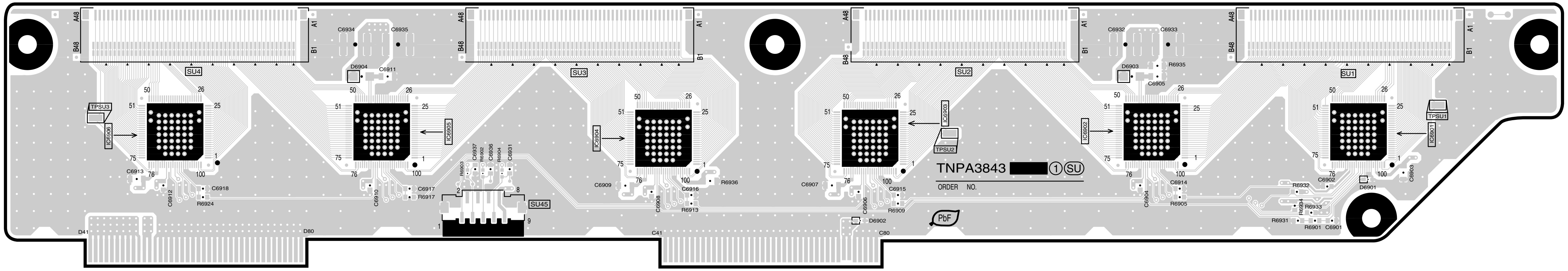
SU-BOARD	
IC	
IC6901	I-2
IC6902	G-2
IC6903	F-2
IC6904	D-2
IC6905	C-2
IC6906	A-2
TP	
TPSU1	I-2
TPSU2	F-2
TPSU3	A-2



SU-BOARD (FOIL SIDE)
TXNSU1DNTUJ


TNPA3843 ① SU
SEE REVERSE FOR ORDER NO.
1 2 3
PbF
C40
C1
D40
D1

SU-BOARD (COMPONENT SIDE)
TXNSU1DNTUJ


A48
B48
A1
B1
SU4
SU3
SU2
SU1
SU45
TPSU3
TPSU2
TPSU1
IC6906
IC6905
IC6904
IC6903
IC6902
IC6901
C6934
C6935
D6904
C6911
C6932
C6933
D6903
R6935
C6905
C6913
C6912
C6918
R6924
C6910
C6917
R6917
C6909
C6908
C6916
R6913
R6936
C6907
C6906
C6915
R6909
D6902
C6904
C6914
R6905
R6932
C6902
D6901
C6903
R6934
R6933
R6931
R6901
C6901
50
26
51
25
75
1
76
100
2
8
9
TNPA3843 ① SU
ORDER NO.
PbF
D41
D80
C41
C80

6
5
4
3
2
1

A B C D E F G H I

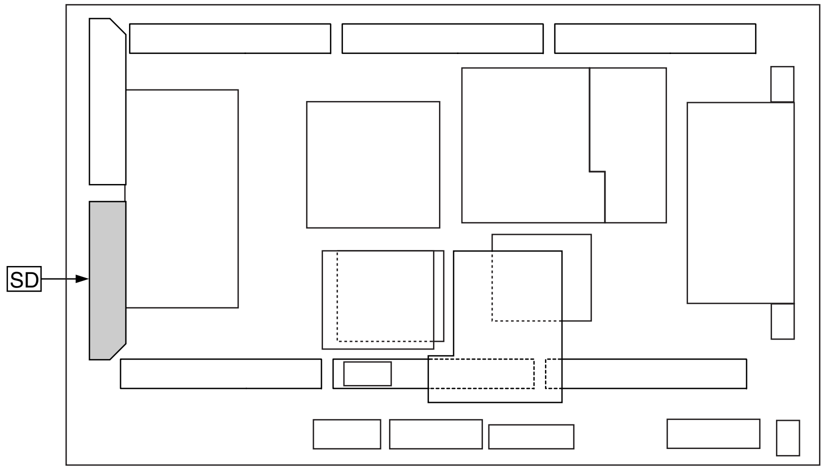
TH-58PX60U
SU-BOARD TXNSU1DNTUJ

TH-58PX60U
SU-BOARD TXNSU1DNTUJ

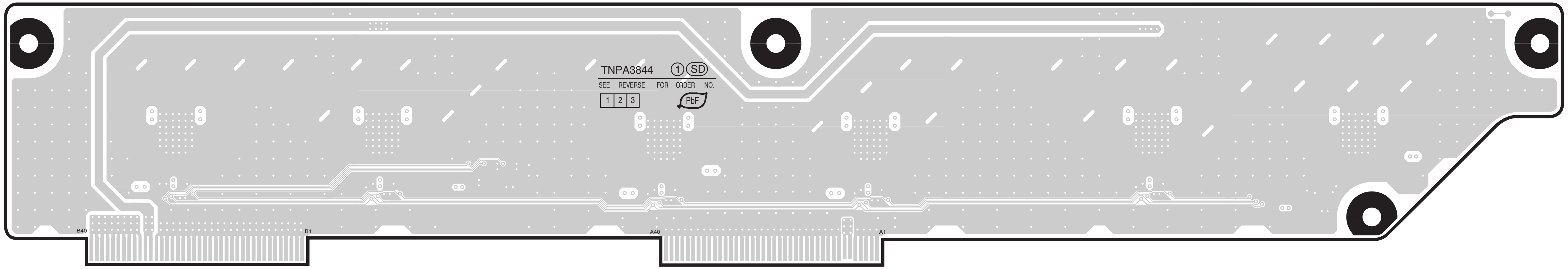
14.17. SD-Board

Parts Location

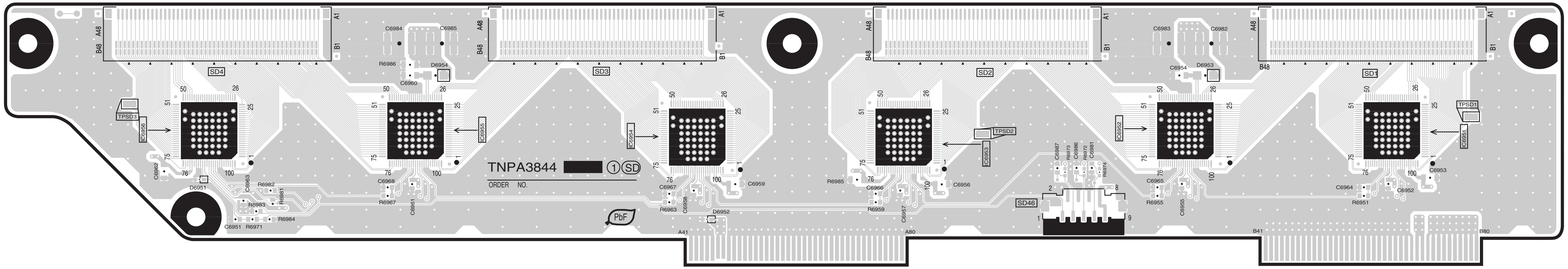
SD-BOARD	
IC	
IC6951	I-2
IC6952	G-2
IC6953	F-2
IC6954	D-2
IC6955	C-2
IC6956	B-2
TP	
TPSD1	I-2
TPSD2	F-2
TPSD3	A-2



SD-BOARD (FOIL SIDE)
TXNSD1DNTUJ


TNPA3844
①SD
SEE REVERSE FOR ORDER NO.
1 2 3
PbF
B40
B1
A40
A1

SD-BOARD (COMPONENT SIDE)
TXNSD1DNTUJ


A48
B48
A1
B1
SD4
SD3
SD2
SD1
SD46
TPSD3
TPSD2
TPSD1
IC6956
IC6955
IC6954
IC6953
IC6952
IC6951
C6984
C6985
R6986
D6954
C6960
C6983
C6982
C6954
D6953
TNPA3844
①SD
ORDER NO.
PbF
C6962
D6951
C6963
R6982
R6983
R6981
R6984
C6951
R6971
C6968
R6967
C6961
C6967
R6963
C6958
C6959
D6952
R6985
C6966
R6959
C6957
C6956
C6965
R6955
C6955
C6964
C6952
R6951
C6953
A41
A80
B41
B80

TH-58PX60U
SD-BOARD TXNSD1DNTUJ

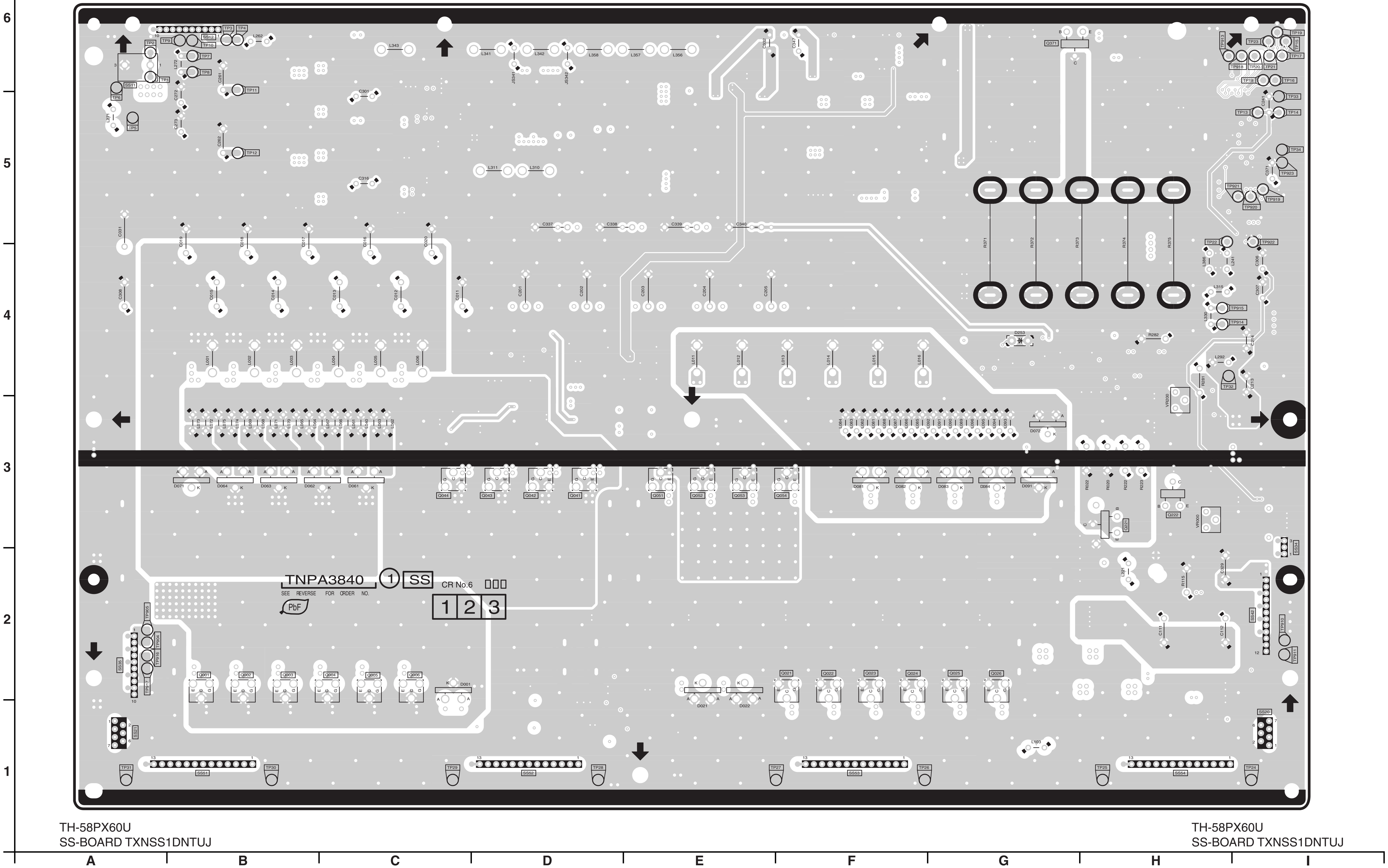
TH-58PX60U
SD-BOARD TXNSU1DNTUJ

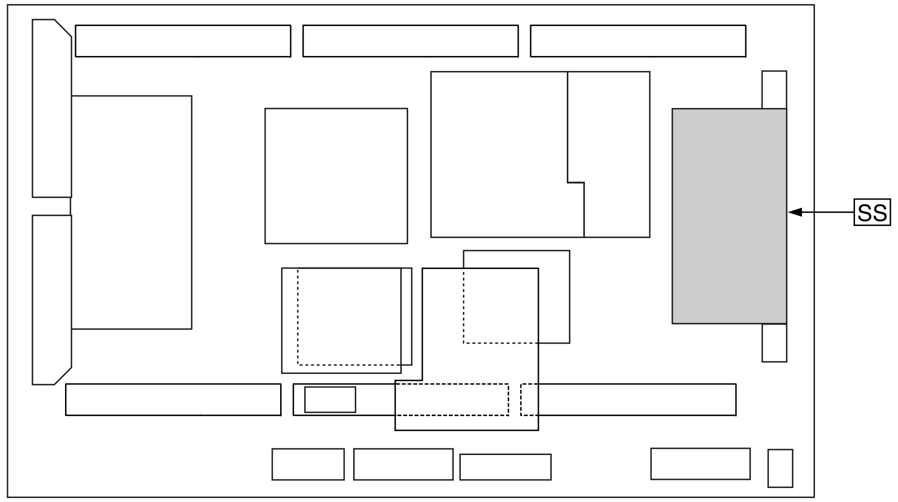
6
5
4
3
2
1

A B C D E F G H I

14.18. SS-Board

SS-BOARD (FOIL SIDE)
TXNSS1DNTUJ


6
5
4
3
2
1
A
B
C
D
E
F
G
H
I
TNPA3840
①
SS
CR No.6
1
2
3
SEE REVERSE FOR ORDER NO.
PbF
TP2
TP3
TP4
TP9
SS12
TP10
TP7
TP8
TP1
SS11
TP6
TP5
TP11
TP12
L262
C272
C273
C281
C282
L271
C301
C316
L343
L341
L342
L358
L357
L356
JS341
JS342
L311
L310
C337
C338
C339
C340
Q371
R371
R372
R373
R374
R375
D253
R282
TP19
TP23
TP17
TP918
TP20
TP21
TP18
TP16
TP33
TP13
TP14
TP34
TP923
TP921
TP919
TP920
TP22
TP922
L315
TP915
TP914
L292
TP32
VR200
C031
C019
C018
C017
C016
C020
C306
C015
C014
C013
C012
C011
C201
C202
C203
C204
C205
L001
L002
L003
L004
L005
L006
L011
L012
L013
L014
L015
L016
D071
D064
D063
D062
D061
Q044
Q043
Q042
Q041
Q051
Q052
Q053
Q054
D081
D082
D083
D084
D091
D072
R022
R020
R222
R223
Q221
Q222
VR000
SS24
SS42
R115
C111
C112
TP910
TP911
TP900
TP904
TP916
TP917
SS35
Q001
Q002
Q003
Q004
Q005
Q006
D001
D021
D022
Q021
Q022
Q023
Q024
Q025
Q026
L103
SS20
SS21
TP31
SS51
TP30
TP29
SS52
TP28
TP27
SS53
TP26
TP25
SS54
TP24
TH-58PX60U
SS-BOARD TXNSS1DNTUJ
TH-58PX60U
SS-BOARD TXNSS1DNTUJ



Parts Location

SS-BOARD (FOIL SIDE)

TRANSISTOR	
Q6001	B-2
Q6002	B-2
Q6003	B-2
Q6004	C-2
Q6005	C-2
Q6006	C-2
Q6021	F-2
Q6022	F-2
Q6023	F-2
Q6024	F-2
Q6025	G-2
Q6026	G-2
Q6041	D-3
Q6042	D-3
Q6043	D-3
Q6044	C-3
Q6051	E-3
Q6052	E-3
Q6053	E-3
Q6054	F-3
Q6221	H-3
Q6222	H-3
Q6371	G-6

TP	
TP1	A-6
TP2	A-6
TP3	B-6
TP4	B-6
TP5	A-5
TP6	A-5
TP7	B-6
TP8	B-6
TP9	B-6
TP10	B-6
TP11	B-6
TP12	B-5
TP13	I-5
TP14	I-5
TP15	I-6
TP16	I-6
TP17	I-6
TP18	I-6
TP19	I-6
TP20	I-6
TP21	I-6
TP22	H-5
TP23	I-6
TP24	I-1
TP25	H-1
TP26	F-1
TP27	F-1
TP28	D-1
TP29	C-1
TP30	B-1
TP31	A-1
TP32	H-4
TP33	I-5
TP34	I-5
TP904	A-2
TP906	A-2
TP910	I-2
TP911	I-2
TP913	H-6
TP914	H-4
TP915	H-4
TP916	A-2
TP917	A-2
TP918	I-6
TP919	I-5
TP920	I-5
TP921	I-5
TP922	I-5
TP923	I-5

VOLUME	
VR6000	H-3
VR6200	H-4

Parts Location

SS-BOARD (COMPONENT SIDE)

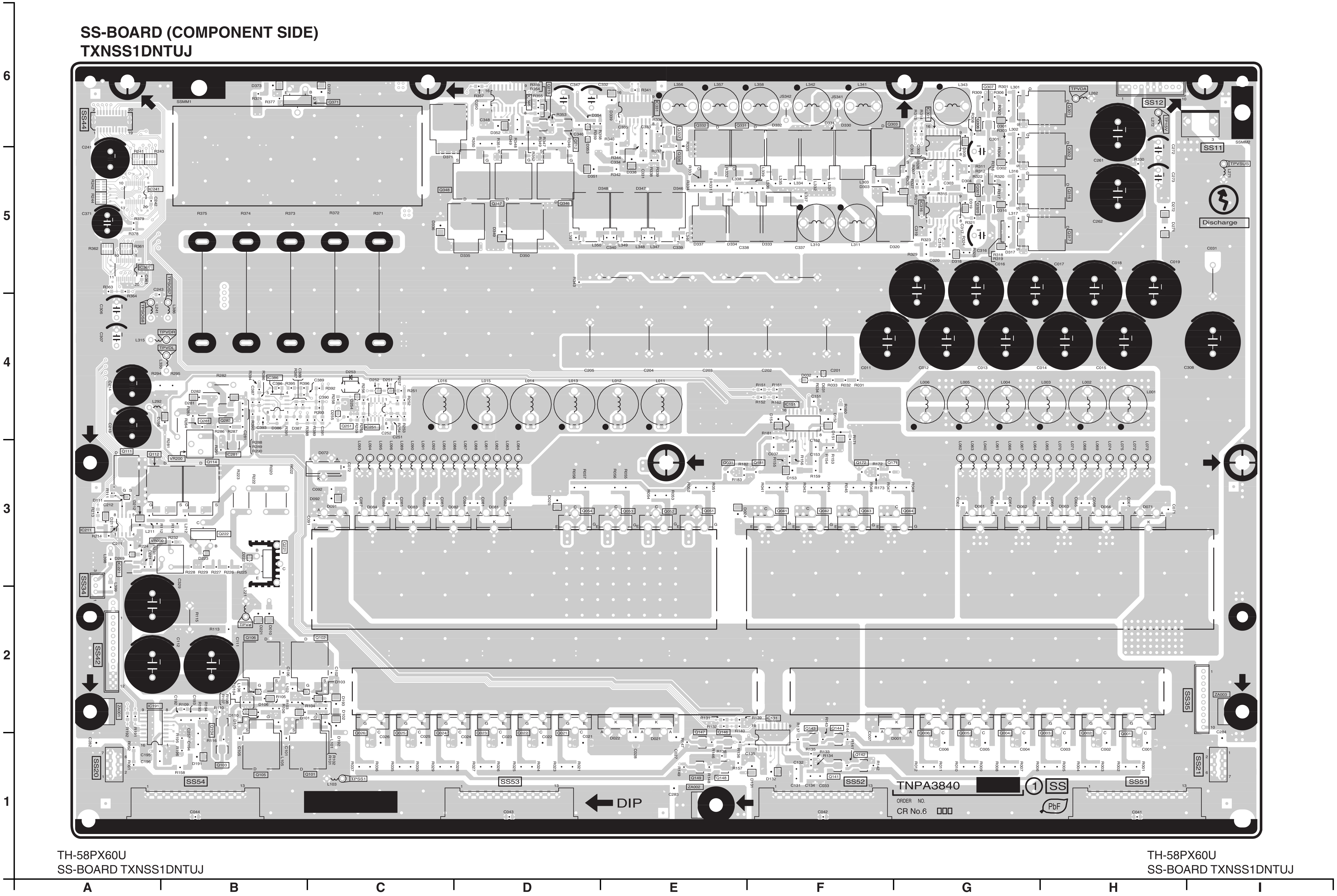
IC	
IC6131	F-2
IC6151	F-4
IC6191	A-2
IC6211	A-3
IC6221	A-3
IC6241	A-5
IC6251	C-4
IC6281	B-3
IC6301	G-6
IC6316	G-5
IC6331	E-6
IC6346	D-6
IC6361	A-5
IC6386	B-4

TRANSISTOR	
Q6001	H-1
Q6002	H-1
Q6003	H-1
Q6004	G-1
Q6005	G-1
Q6006	G-1
Q6021	D-1
Q6022	D-1
Q6023	D-1
Q6024	C-1
Q6025	C-1
Q6026	C-1
Q6031	E-3
Q6041	F-3
Q6042	F-3
Q6043	F-3
Q6044	G-3
Q6051	E-3
Q6052	E-3
Q6053	E-3
Q6054	D-3
Q6101	C-1
Q6102	C-2
Q6103	B-1
Q6104	B-2
Q6105	B-1
Q6106	B-2
Q6111	A-3
Q6112	A-3
Q6114	B-3
Q6141	F-1
Q6142	F-1
Q6143	F-2
Q6144	F-2
Q6146	E-1
Q6147	E-1
Q6148	E-1
Q6149	E-1
Q6171	G-3
Q6172	F-3
Q6181	F-3
Q6212	D-6
Q6213	D-6
Q6221	B-3
Q6222	B-3
Q6251	C-3
Q6281	B-4
Q6282	B-4
Q6301	H-6
Q6302	H-5
Q6303	G-6
Q6306	G-6
Q6307	G-6
Q6316	H-5
Q6317	H-5
Q6320	G-5
Q6321	G-5
Q6331	E-6
Q6332	E-6
Q6336	E-5
Q6337	E-6
Q6346	D-5
Q6347	D-5
Q6348	D-5
Q6371	C-6

TP	
TP15V	H-6
TPSOS7	B-4
TPSOS8	A-4
TPSS1	C-1
TPVDA	H-6
TPVDL	B-4
TPVDR	B-4
TPVe	B-2
TPVSUS	I-5

VOLUME	
VR6000	A-3
VR6200	B-3

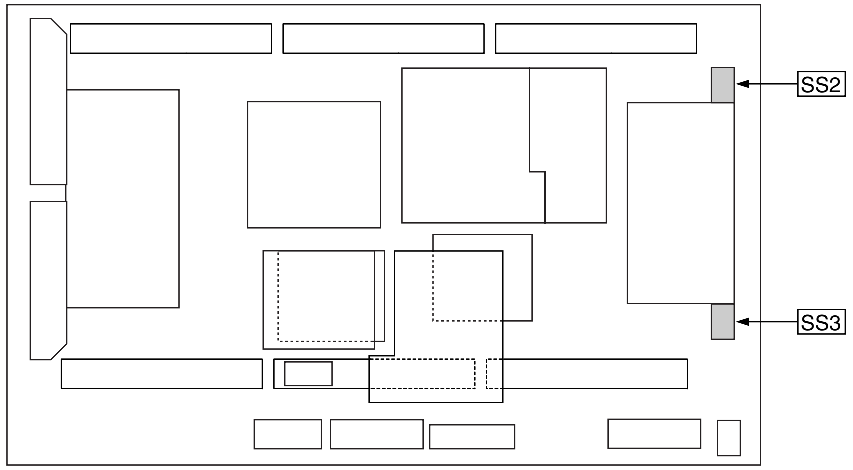
SS-BOARD (COMPONENT SIDE)
TXNSS1DNTUJ


SS44
SS12
SS11
SSMM1
SSMM2
Discharge
SS34
SS42
SS20
SS54
SS53
SS52
SS51
SS35
SS21
DIP
TNPA3840
① SS
ORDER NO.
CR No.6
PbF
6
5
4
3
2
1
A
B
C
D
E
F
G
H
I

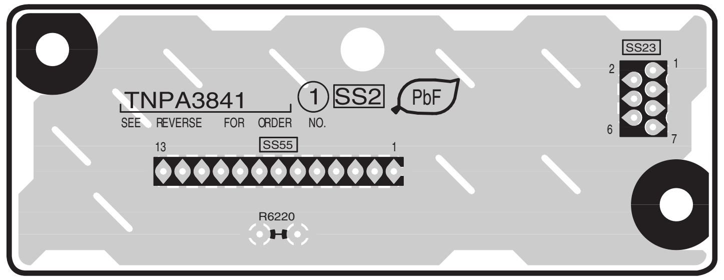
TH-58PX60U
SS-BOARD TXNSS1DNTUJ

TH-58PX60U
SS-BOARD TXNSS1DNTUJ

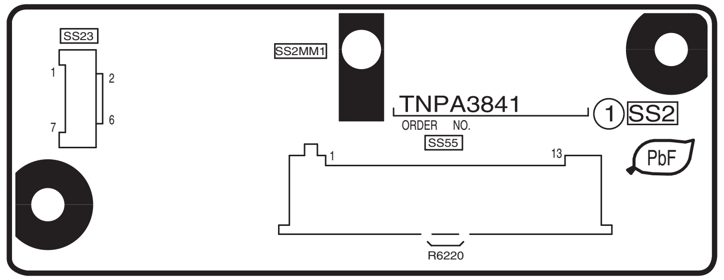
14.19. SS2 and SS3-Board



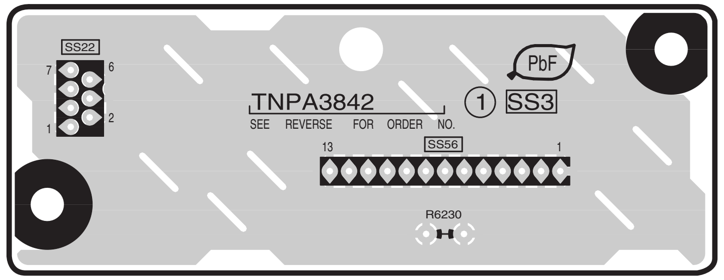
SS2-BOARD (FOIL SIDE)
TNPA3841S


SS23
2
1
6
7
TNPA3841
① SS2
PbF
SEE REVERSE FOR ORDER NO.
13
SS55
1
R6220

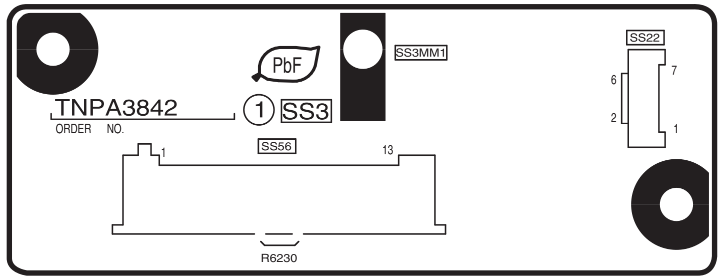
SS2-BOARD (COMPONENT SIDE)
TNPA3841S


SS23
1
2
7
6
SS2MM1
TNPA3841
ORDER NO.
① SS2
SS55
1
13
PbF
R6220

SS3-BOARD (FOIL SIDE)
TNPA3842S


SS22
7
6
1
2
PbF
TNPA3842
① SS3
SEE REVERSE FOR ORDER NO.
13
SS56
1
R6230

SS3-BOARD (COMPONENT SIDE)
TNPA3842S


SS3MM1
PbF
TNPA3842
ORDER NO.
① SS3
SS56
1
13
SS22
6
7
2
1
R6230

6
5
4
3
2
1

TH-58PX60U
SS2-BOARD TNPA3841S
SS3-BOARD TNPA3842S

TH-58PX60U
SS2-BOARD TNPA3841S
SS3-BOARD TNPA3842S

A B C D E F G H I

15 Schematic and Block Diagram

15.1. Schematic Diagram Note

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacture's specified parts.

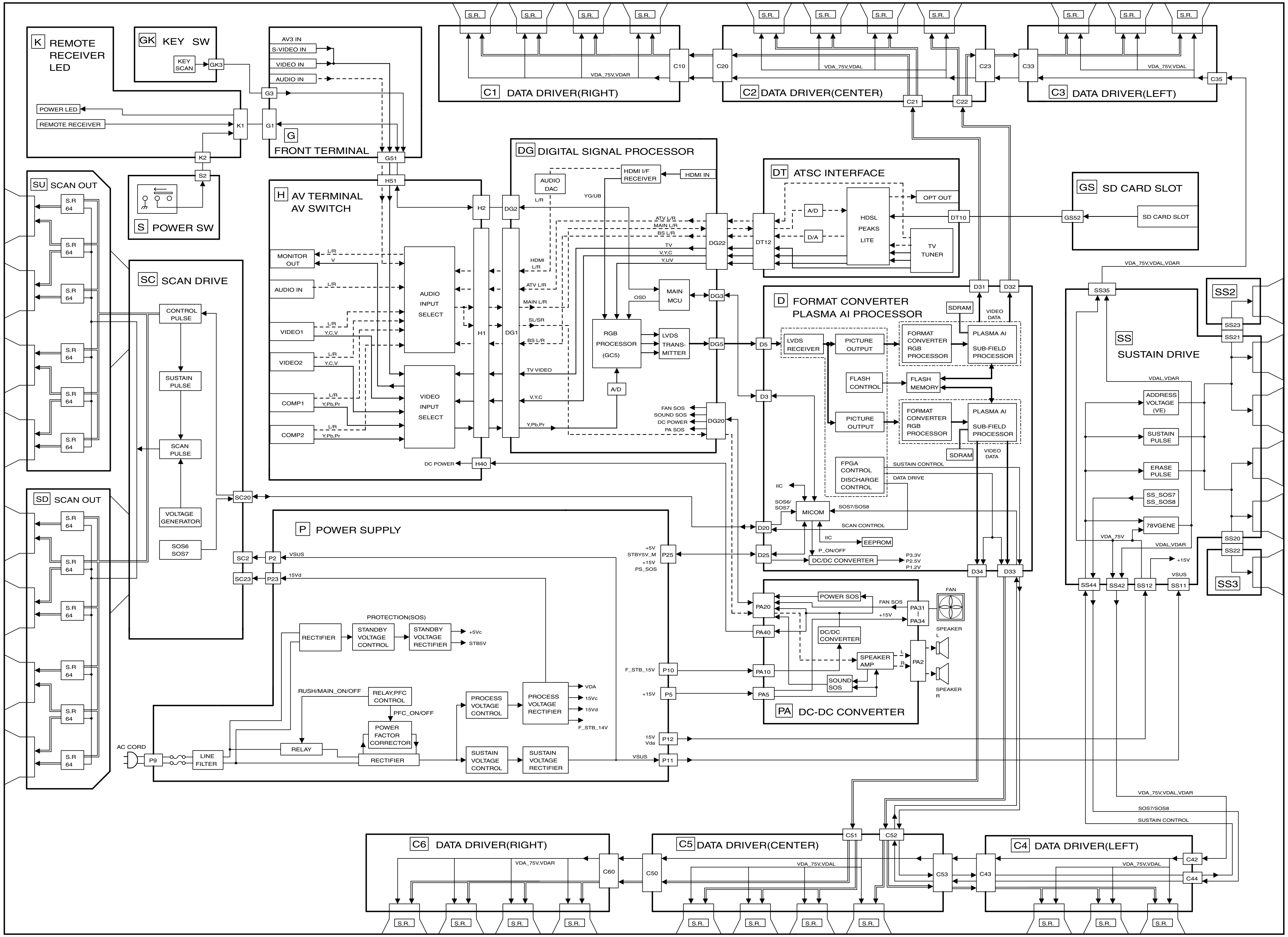
Notes:

1. **Resistor**
   Unit of resistance is OHM [Ω] (K=1,000, M=1,000,000).
2. **Capacitor**
   Unit of capacitance is µF, unless otherwise noted.
3. Coil
   Unit of inductance is H, unless otherwise noted.
4. Test Point
   ⚲ : Test Point position
5. Earth Symbol
   ⏚ : Chassis Earth (Cold) ⏚ : Line Earth (Hot)
6. Voltage Measurement
   Voltage is measured by a DC voltmeter.
   Conditions of the measurement are the following:
   Power Source AC120V, 50/60Hz
   Receiving Signal .... Colour Bar signal (RF)
   All customer's controls .... Maximum positions
7. When arrow mark (↗) is found, connection is easily found from the direction of arrow.
8. Indicates the major signal flow. : Video ➡ Audio ⇨
9. This schematic diagram is the latest at the time of printing and subject to change without notice.

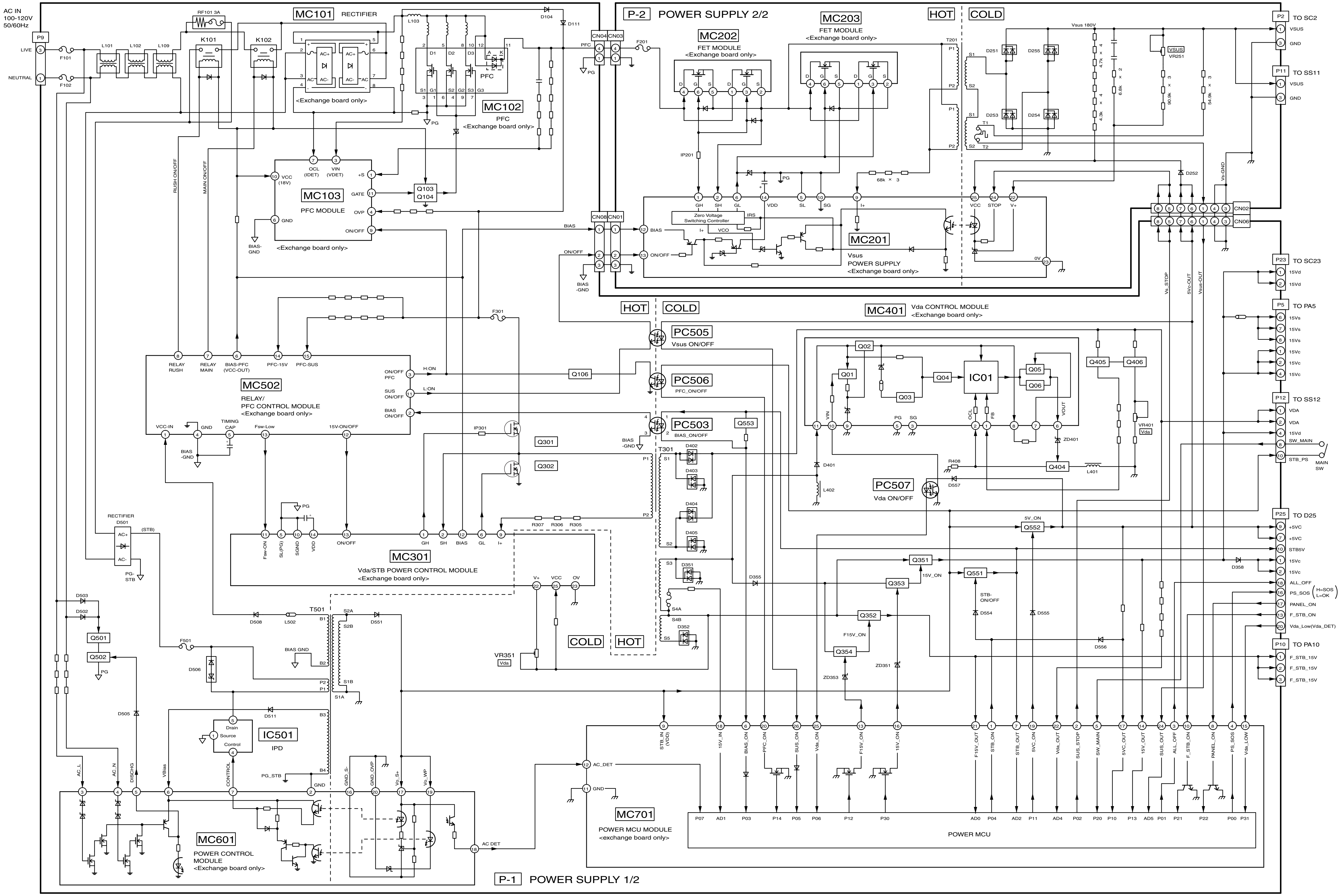
Remarks:

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
   The circuit is defined by HOT and COLD indications in the schematic diagram. Take the follwing precautions.
   All circuits, except the Power Circuit, are cold.
   Precautions
   a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
   b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
   c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
   Connect the earth of instruments to the earth connection of the circuit being measured.
   d. Make sure to disconnect the power plug before removing the chassis.

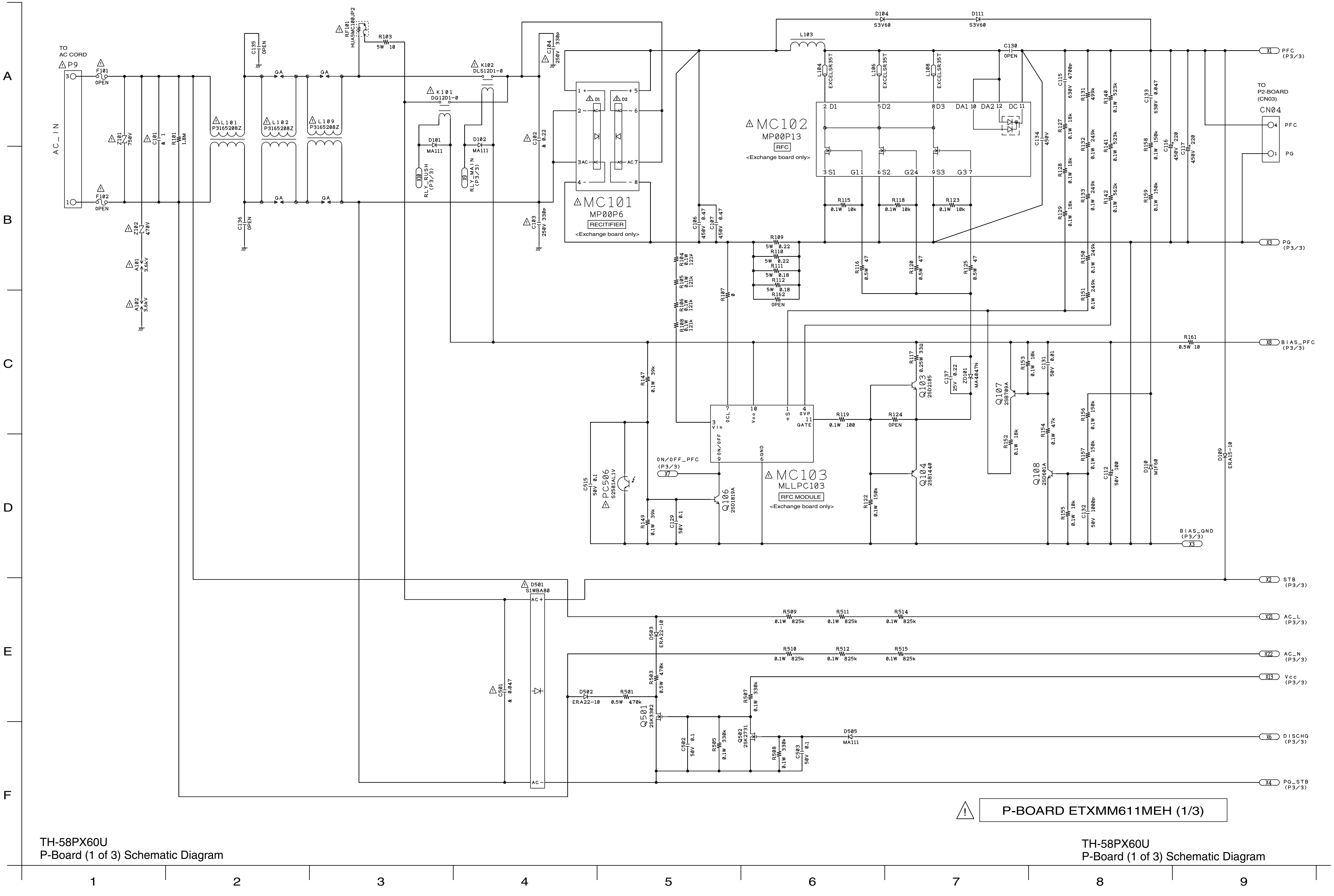
15.2. Main Block Diagram


K REMOTE RECEIVER LED
POWER LED
REMOTE RECEIVER
K1
K2
GK KEY SW
KEY SCAN
GK3
G FRONT TERMINAL
AV3 IN
S-VIDEO IN
VIDEO IN
AUDIO IN
G3
G1
G51
S2
S POWER SW
SU SCAN OUT
SD SCAN OUT
S.R 64
SC SCAN DRIVE
CONTROL PULSE
SUSTAIN PULSE
SCAN PULSE
VOLTAGE GENERATOR
SOS6 SOS7
SC20
SC2
SC23
H51
H AV TERMINAL AV SWITCH
MONITOR OUT
AUDIO IN
VIDEO1
VIDEO2
COMP1
COMP2
L/R
V
Y,C,V
Y,Pb,Pr
AUDIO INPUT SELECT
VIDEO INPUT SELECT
H2
H1
H40
DC POWER
DG DIGITAL SIGNAL PROCESSOR
AUDIO DAC
HDMI I/F RECEIVER
HDMI IN
YG/UB
DG2
DG1
HDMI L/R
ATV L/R
MAIN L/R
SL/SR
BS L/R
TV VIDEO
V,Y,C
Y,Pb,Pr
MAIN L/R
BS L/R
TV
V,Y,C
Y,UV
DG22
MAIN MCU
OSD
DG3
RGB PROCESSOR (GC5)
LVDS TRANS-MITTER
DG5
A/D
FAN SOS
SOUND SOS
DC POWER
PA SOS
DG20
DT ATSC INTERFACE
DT12
A/D
D/A
HDSL PEAKS LITE
TV TUNER
OPT OUT
DT10
GS SD CARD SLOT
GS52
SD CARD SLOT
C1 DATA DRIVER(RIGHT)
C10
C2 DATA DRIVER(CENTER)
C20
C21
C22
C23
C3 DATA DRIVER(LEFT)
C33
C35
VDA_75V,VDAR
VDA_75V,VDAL
S.R.
D FORMAT CONVERTER PLASMA AI PROCESSOR
D31
D32
SDRAM
VIDEO DATA
D5
LVDS RECEIVER
PICTURE OUTPUT
FORMAT CONVERTER RGB PROCESSOR
PLASMA AI SUB-FIELD PROCESSOR
FLASH CONTROL
FLASH MEMORY
D3
FPGA CONTROL DISCHARGE CONTROL
SUSTAIN CONTROL
DATA DRIVE
IIC
SOS6/SOS7
MICOM
SOS7/SOS8
SCAN CONTROL
EEPROM
P_ON/OFF
DC/DC CONVERTER
P3.3V P2.5V P1.2V
D20
D25
D34
D33
SS SUSTAIN DRIVE
SS35
SS2
SS23
SS21
VDAL,VDAR
ADDRESS VOLTAGE (VE)
SUSTAIN PULSE
ERASE PULSE
SS_SOS7 SS_SOS8
78VGENE
VDA_75V
VDAL,VDAR
SS20
SS22
SS3
+15V
VSUS
SS44
SS42
SS12
SS11
VDA_75V,VDAL,VDAR
P POWER SUPPLY
P2
P23
VSUS
15Vd
+5V STBY5V_M +15V PS_SOS
P25
PROTECTION(SOS)
RECTIFIER
STANDBY VOLTAGE CONTROL
STANDBY VOLTAGE RECTIFIER
+5Vc
STB5V
RUSH/MAIN_ON/OFF
RELAY,PFC CONTROL
PFC_ON/OFF
POWER FACTOR CORRECTOR
RELAY
PROCESS VOLTAGE CONTROL
PROCESS VOLTAGE RECTIFIER
VDA
15Vc
15Vd
F_STB_14V
F_STB_15V
P10
+15V
P5
15V Vda
P12
SUSTAIN VOLTAGE CONTROL
SUSTAIN VOLTAGE RECTIFIER
VSUS
P11
AC CORD
P9
LINE FILTER
RECTIFIER
PA DC-DC CONVERTER
PA20
PA40
PA10
PA5
POWER SOS
FAN SOS
+15V
PA31 | PA34
FAN
DC/DC CONVERTER
SPEAKER AMP
L R
PA2
SPEAKER L
SPEAKER R
SOUND SOS
C6 DATA DRIVER(RIGHT)
C60
C5 DATA DRIVER(CENTER)
C50
C51
C52
C53
C4 DATA DRIVER(LEFT)
C43
C42
C44
SOS7/SOS8
SUSTAIN CONTROL

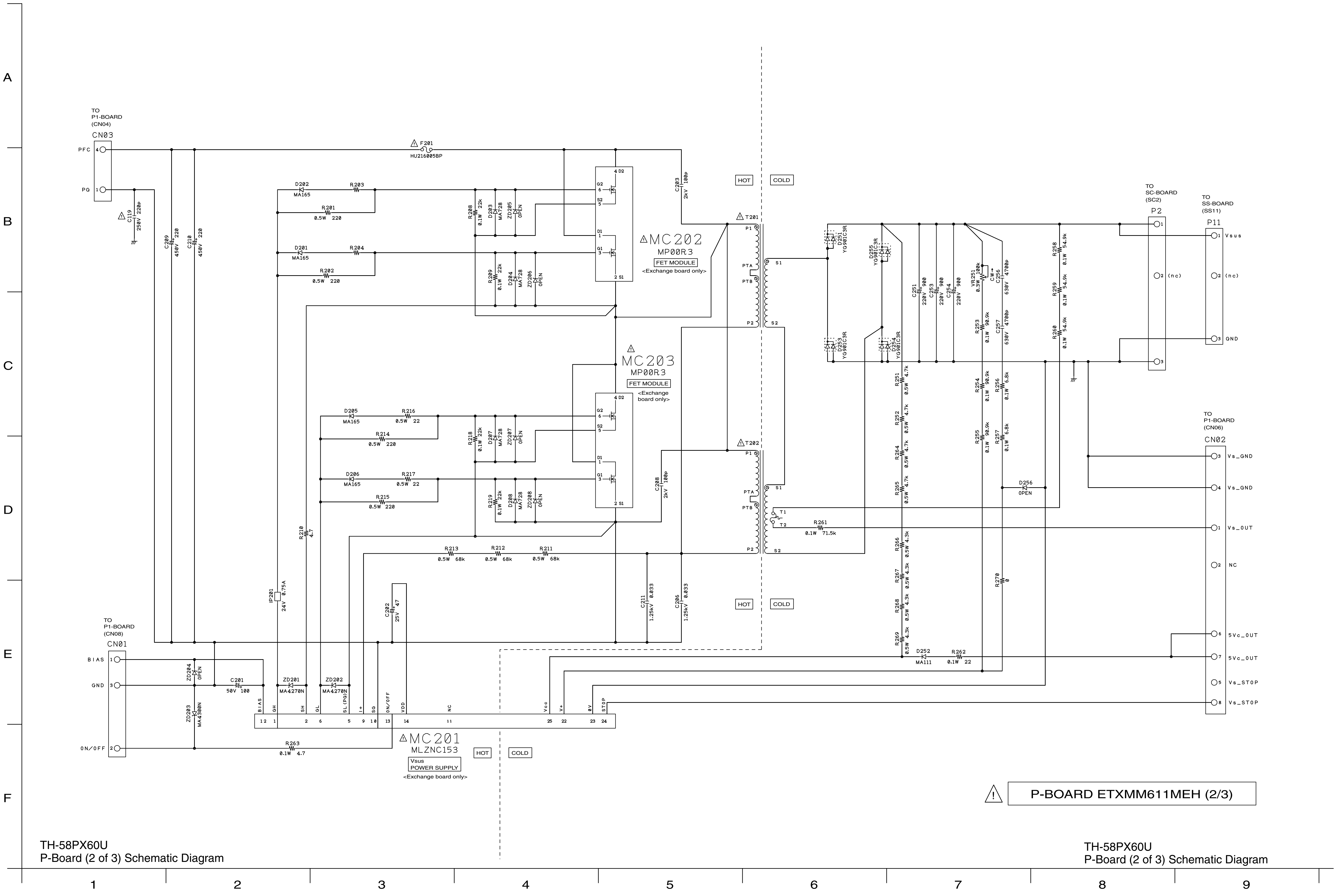
15.3. P-Board Block Diagram


AC IN
100-120V
50/60Hz
P9
LIVE
NEUTRAL
F101
F102
L101
L102
L109
RF101 3A
K101
K102
MC101
RECTIFIER
<Exchange board only>
L103
D1
D2
D3
PFC
MC102
PFC
<Exchange board only>
D104
D111
PG
RUSH ON/OFF
MAIN ON/OFF
MC103
PFC MODULE
OCL (IDET)
VIN (VDET)
VCC (18V)
+S
GATE
OVP
ON/OFF
GND
Q103
Q104
BIAS-GND
<Exchange board only>
P-2
POWER SUPPLY 2/2
MC202
FET MODULE
<Exchange board only>
MC203
FET MODULE
<Exchange board only>
HOT
COLD
CN04
CN03
CN08
CN01
F201
T201
IP201
Zero Voltage Switching Controller
VCO
IRS
GH
SH
GL
VDD
SL
SG
I+
MC201
Vsus
POWER SUPPLY
<Exchange board only>
VCC
STOP
V+
0V
D251
D252
D253
D254
D255
Vsus 180V
VSUS
VR251
68k × 3
4.7k × 4
6.8k × 2
4.3k × 4
90.9k × 3
54.9k × 3
CN02
CN06
Vs-GND
Vs_STOP
5Vc-OUT
Vsus-OUT
BIAS
ON/OFF
BIAS -GND
P2
TO SC2
VSUS
GND
P11
TO SS11
VSUS
GND
P23
TO SC23
15Vd
15Vd
P5
TO PA5
15Vs
15Vs
15Vs
15Vc
15Vc
15Vc
P12
TO SS12
VDA
VDA
15Vd
SW_MAIN
STB_PS
MAIN SW
P25
TO D25
+5VC
+5VC
STB5V
15Vc
15Vc
ALL_OFF
PS_SOS (H=SOS L=OK)
PANEL_ON
F_STB_ON
Vda_Low(Vda_DET)
P10
TO PA10
F_STB_15V
F_STB_15V
F_STB_15V
F301
MC502
RELAY/
PFC CONTROL MODULE
<Exchange board only>
RELAY RUSH
RELAY MAIN
BIAS-PFC (VCC-OUT)
PFC-15V
PFC-SUS
ON/OFF PFC
SUS ON/OFF
BIAS ON/OFF
H:ON
L:ON
VCC-IN
GND
TIMING CAP
Fsw-Low
15V-ON/OFF
Q106
IP301
Q301
Q302
PC505
Vsus ON/OFF
PC506
PFC_ON/OFF
PC503
BIAS_ON/OFF
Q553
T301
D402
D403
D404
D405
R307
R306
R305
MC301
Vda/STB POWER CONTROL MODULE
<Exchange board only>
Fsw-ON
SL(PG)
SGND
VDD
ON/OFF
GH
SH
BIAS
GL
I+
V+
VCC
OV
VR351
Vda
COLD
HOT
MC401
Vda CONTROL MODULE
<Exchange board only>
Q02
Q01
Q03
Q04
IC01
Q05
Q06
VIN
PG
SG
OCL
FB
VOUT
ZD401
Q405
Q406
VR401
Vda
R408
Q404
L401
D401
L402
PC507
Vda ON/OFF
D557
5V_ON
Q552
Q351
15V_ON
Q551
Q353
STB-ON/OFF
D554
D555
D556
D358
Q352
F15V_ON
Q354
ZD351
ZD353
D351
D352
D355
RECTIFIER
D501
(STB)
AC+
AC-
PG-STB
D503
D502
Q501
Q502
PG
F501
D506
D505
T501
D508
L502
S2A
S2B
D551
BIAS GND
S1B
S1A
B1
B2
B3
B4
P1
P2
D511
IC501
IPD
Drain
Source
Control
PG_STB
GND
AC_L
AC_N
DISCHG
VBias
CONTROL
GND_S-
GND_OVP
Vs_S+
Vs_WP
AC DET
MC601
POWER CONTROL MODULE
<Exchange board only>
P-1
POWER SUPPLY 1/2
AC_DET
GND
MC701
POWER MCU MODULE
<exchange board only>
POWER MCU
STB_IN (VD2)
15V_IN
BIAS_ON
PFC_ON
SUS_ON
Vda_ON
F15V_ON
15V_ON
F15V_OUT
STB_ON
STB_OUT
5VC_ON
Vda_OUT
SUS_STOP
SW_MAIN
5VC_OUT
15V_OUT
SUS_OUT
ALL_OFF
F_STB_ON
PANEL_ON
PS_SOS
Vda_LOW
P07
AD1
P03
P14
P05
P06
P12
P30
AD0
P04
AD2
P11
AD4
P02
P20
P10
P13
AD5
P01
P21
P22
P00
P31

15.4. P-Board (1 of 3) Schematic Diagram


A
B
C
D
E
F
1
2
3
4
5
6
7
8
9
TO
AC CORD
P9
AC_IN
F101
OPEN
F102
OPEN
Z101
750V
C101
1
R101
1W
1.8M
Z102
470V
A101
3.6kV
A102
3.6kV
C135
OPEN
C136
OPEN
L101
P3165208Z
L102
P3165208Z
L109
P3165208Z
GA
RF101
HUA5MC100JP2
R103
5W 10
K101
DG12D1-0
K102
DLS12D1-0
D101
MA111
D102
MA111
X8
RLY_RUSH
(P3/3)
X9
RLY_MAIN
(P3/3)
C104
250V 330p
C102
0.22
C103
250V 330p
MC101
MP00P6
RECITIFIER
<Exchange board only>
D1
D2
AC
L103
D104
S3V60
D111
S3V60
L104
EXCELSR35T
L106
EXCELSR35T
L108
EXCELSR35T
C130
OPEN
MC102
MP00P13
RFC
<Exchange board only>
D1
D2
D3
DA1
DA2
DC
S1
G1
S2
G2
S3
G3
R115
0.1W 10k
R118
0.1W 10k
R123
0.1W 10k
C106
450V 0.47
C107
450V 0.47
R109
5W 0.22
R110
5W 0.22
R111
5W 0.18
R112
5W 0.18
R162
OPEN
R104
0.1W 121k
R105
0.1W 121k
R106
0.1W 121k
R108
0.1W 121k
R107
0
R116
0.5W 47
R120
0.5W 47
R125
0.5W 47
C115
630V 4700p
R127
0.1W 18k
R128
0.1W 18k
R129
0.1W 18k
R131
499k
R132
0.1W 249k
R133
0.1W 249k
R140
0.1W 523k
R141
0.1W 523k
R142
0.1W 562k
C133
630V 0.047
C134
450V
R158
0.1W 150k
R159
0.1W 150k
C116
450V 220
C117
450V 220
R150
0.1W 249k
R151
0.1W 249k
X1
PFC
(P3/3)
TO
P2-BOARD
(CN03)
CN04
PFC
PG
X3
PG
(P3/3)
R161
0.5W 10
X8
BIAS_PFC
(P3/3)
R147
0.1W 39k
R149
0.1W 39k
C129
50V 0.1
C515
50V 0.1
PC506
S2581AL1V
ON/OFF_PFC
(P3/3)
X7
Q106
2SD1819A
MC103
MLLPC103
RFC MODULE
<Exchange board only>
OCL
Vcc
+S
OVP
GATE
Vin
ON/OFF
GND
R119
0.1W 100
R124
OPEN
R117
0.25W 33Ω
Q103
2SD2185
C137
25V 0.22
ZD101
MA4047N
Q104
2SB1440
R122
0.1W 150k
Q107
2SB709A
R153
0.1W 10k
C131
50V 0.01
R152
0.1W 18k
R154
0.1W 47k
Q108
2SD601A
R156
0.1W 150k
R157
0.1W 150k
C112
50V 100
R155
0.1W 10k
C132
50V 1000p
D110
MTF60
D109
ERA15-10
BIAS_GND
(P3/3)
X3
X2
STB
(P3/3)
D501
S1WBA80
AC
C501
0.047
R509
0.1W 825k
R511
0.1W 825k
R514
0.1W 825k
X21
AC_L
(P3/3)
R510
0.1W 825k
R512
0.1W 825k
R515
0.1W 825k
X22
AC_N
(P3/3)
X13
Vcc
(P3/3)
D503
ERA22-10
R503
0.5W 470k
D502
ERA22-10
R501
0.5W 470k
Q501
2SK3302
R507
0.1W 330k
C502
50V 0.1
R505
0.1W 330k
Q502
2SK2731
R508
0.1W 330k
C503
50V 0.1
D505
MA111
X6
DISCHG
(P3/3)
X4
PG_STB
(P3/3)
P-BOARD ETXMM611MEH (1/3)

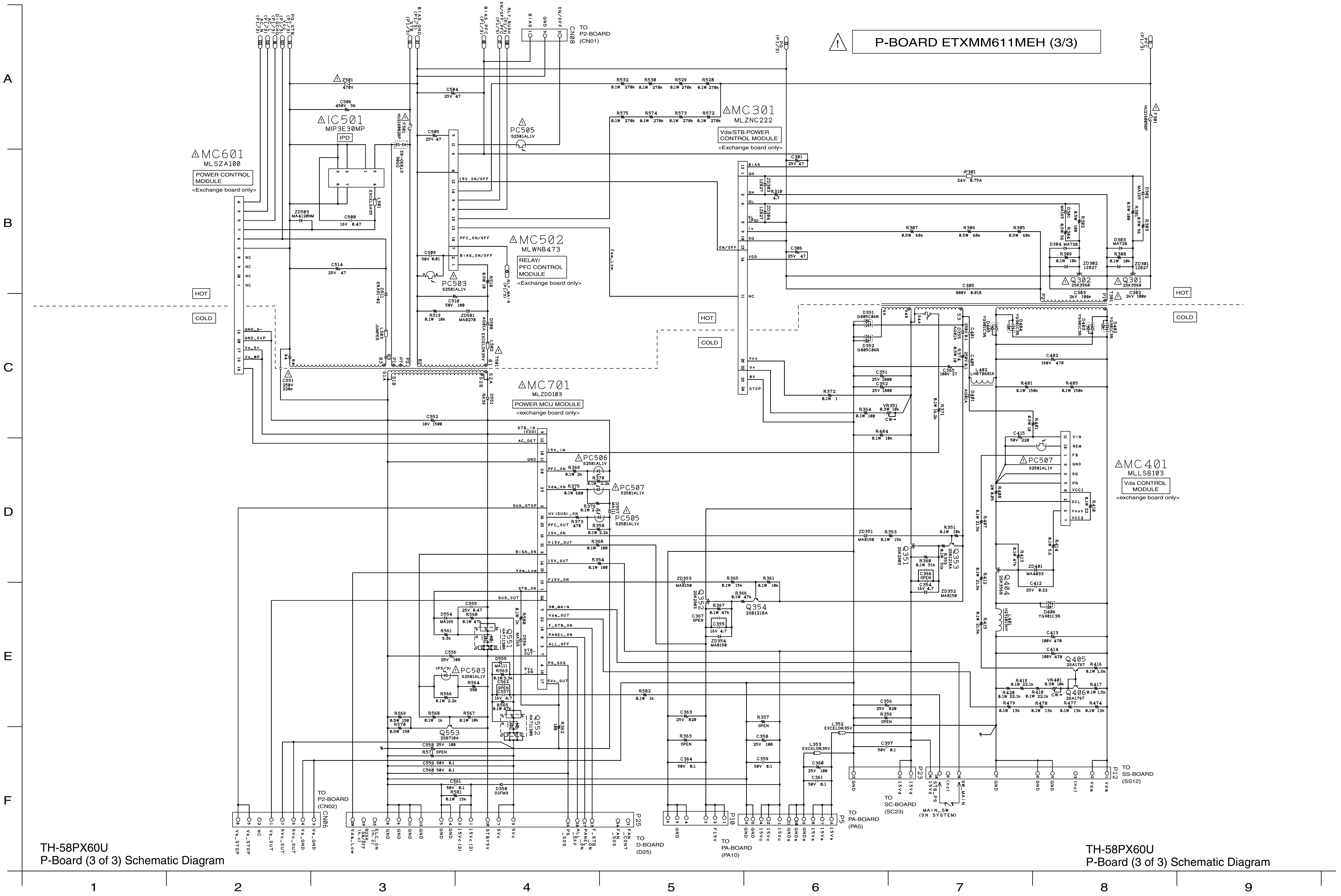
15.5. P-Board (2 of 3) Schematic Diagram


A
B
C
D
E
F
1
2
3
4
5
6
7
8
9
TO P1-BOARD (CN04)
CN03
PFC 4
PG 1
C119 250V 220p
C209 450V 220
C210 450V 220
F201 HU216005BP
D202 MA165
R203
R201 0.5W 220
D201 MA165
R204
R202 0.5W 220
R208 0.1W 22k
D203 MA728
ZD205 OPEN
R209 0.1W 22k
D204 MA728
ZD206 OPEN
MC202 MP00R3
FET MODULE
<Exchange board only>
C203 2kV 100p
HOT
COLD
T201
P1
PTA
PTB
P2
S1
S2
MC203 MP00R3
FET MODULE
<Exchange board only>
G2 6
S2 5
D1 1
G1 3
4 D2
2 S1
D205 MA165
R216 0.5W 22
R214 0.5W 220
D206 MA165
R217 0.5W 22
R215 0.5W 220
R218 0.1W 22k
D207 MA728
ZD207 OPEN
R219 0.1W 22k
D208 MA728
ZD208 OPEN
T202
C208 2kV 100p
T1
T2
R261 0.1W 71.5k
R210 4.7
R213 0.5W 68k
R212 0.5W 68k
R211 0.5W 68k
IP201 24V 0.75A
C202 25V 47
C211 1.25kV 0.033
C206 1.25kV 0.033
TO P1-BOARD (CN08)
CN01
BIAS 1
GND 3
ON/OFF 2
ZD204 OPEN
ZD203 MA4300N
C201 50V 100
ZD201 MA4270N
ZD202 MA4270N
BIAS GH SH GL SL(PG) I+ SG ON/OFF VDD NC Vcc V+ 0V STOP
12 1 2 6 5 9 10 13 14 11 25 22 23 24
R263 0.1W 4.7
MC201 MLZNC153
Vsus POWER SUPPLY
<Exchange board only>
D251 YG901C3R
D255 YG901C3R
D253 YG901C3R
D254 YG901C3R
C251 220V 900
C253 220V 900
C254 220V 900
VR251 0.3W 100k
CW
C256 630V 4700p
C257 630V 4700p
R253 0.1W 90.9k
R254 0.1W 90.9k
R255 0.1W 90.9k
R256 0.1W 6.8k
R257 0.1W 6.8k
R258 0.1W 54.9k
R259 0.1W 54.9k
R260 0.1W 54.9k
R251 0.5W 4.7k
R252 0.5W 4.7k
R264 0.5W 4.7k
R265 0.5W 4.7k
R266 0.5W 4.3k
R267 0.5W 4.3k
R268 0.5W 4.3k
R269 0.5W 4.3k
R270 0
D256 OPEN
D252 MA111
R262 0.1W 22
TO SC-BOARD (SC2)
P2
1
2 (nc)
3
TO SS-BOARD (SS11)
P11
1 Vsus
2 (nc)
3 GND
TO P1-BOARD (CN06)
CN02
3 Vs_GND
4 Vs_GND
1 Vs_OUT
2 NC
6 5Vc_OUT
7 5Vc_OUT
5 Vs_STOP
8 Vs_STOP
P-BOARD ETXMM611MEH (2/3)

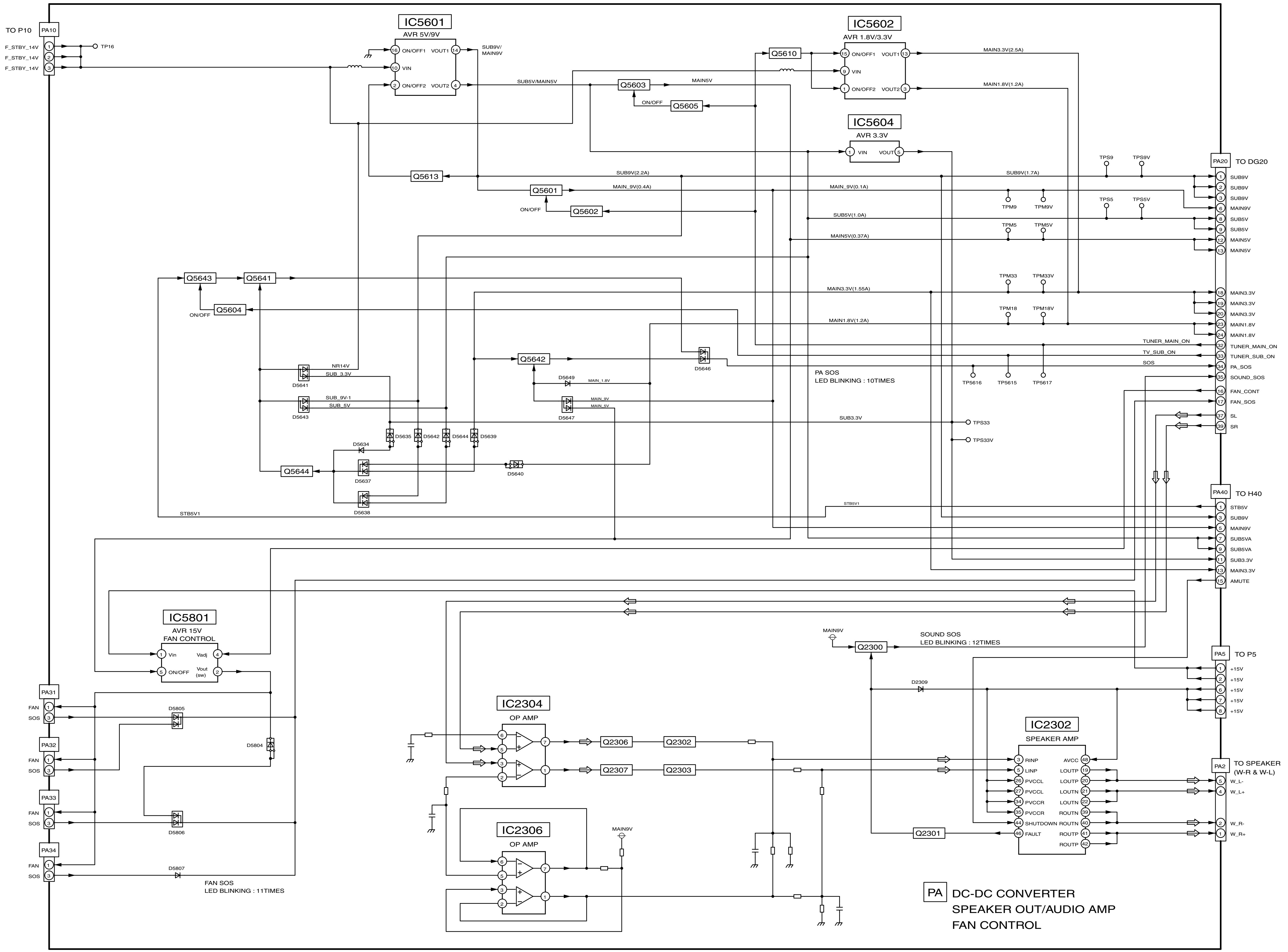
TH-58PX60U
P-Board (2 of 3) Schematic Diagram

TH-58PX60U
P-Board (2 of 3) Schematic Diagram

15.6. P-Board (3 of 3) Schematic Diagram


P-BOARD ETXMM611MEH (3/3)
MC601
MLSZA100
POWER CONTROL MODULE
<Exchange board only>
IC501
MIP3E30MP
IPD
MC301
MLZNC222
Vda/STB POWER CONTROL MODULE
<Exchange board only>
MC502
MLWNB473
RELAY/PFC CONTROL MODULE
<Exchange board only>
MC701
MLZDD103
POWER MCU MODULE
<exchange board only>
MC401
MLLSB103
Vda CONTROL MODULE
<exchange board only>
PC505
S2581AL1V
PC503
PC506
PC507
Q301
Q302
Q351
Q352
Q353
Q354
Q404
Q405
Q406
Q551
Q552
Q553
HOT
COLD
CN08
TO P2-BOARD (CN01)
CN06
TO P2-BOARD (CN02)
P25
TO D-BOARD (D25)
P10
TO PA-BOARD (PA10)
P5
TO PA-BOARD (PA5)
P23
TO SC-BOARD (SC23)
MAIN_SW (ON SYSTEM)
P12
TO SS-BOARD (SS12)
A
B
C
D
E
F
1
2
3
4
5
6
7
8
9
TH-58PX60U
P-Board (3 of 3) Schematic Diagram
TH-58PX60U
P-Board (3 of 3) Schematic Diagram

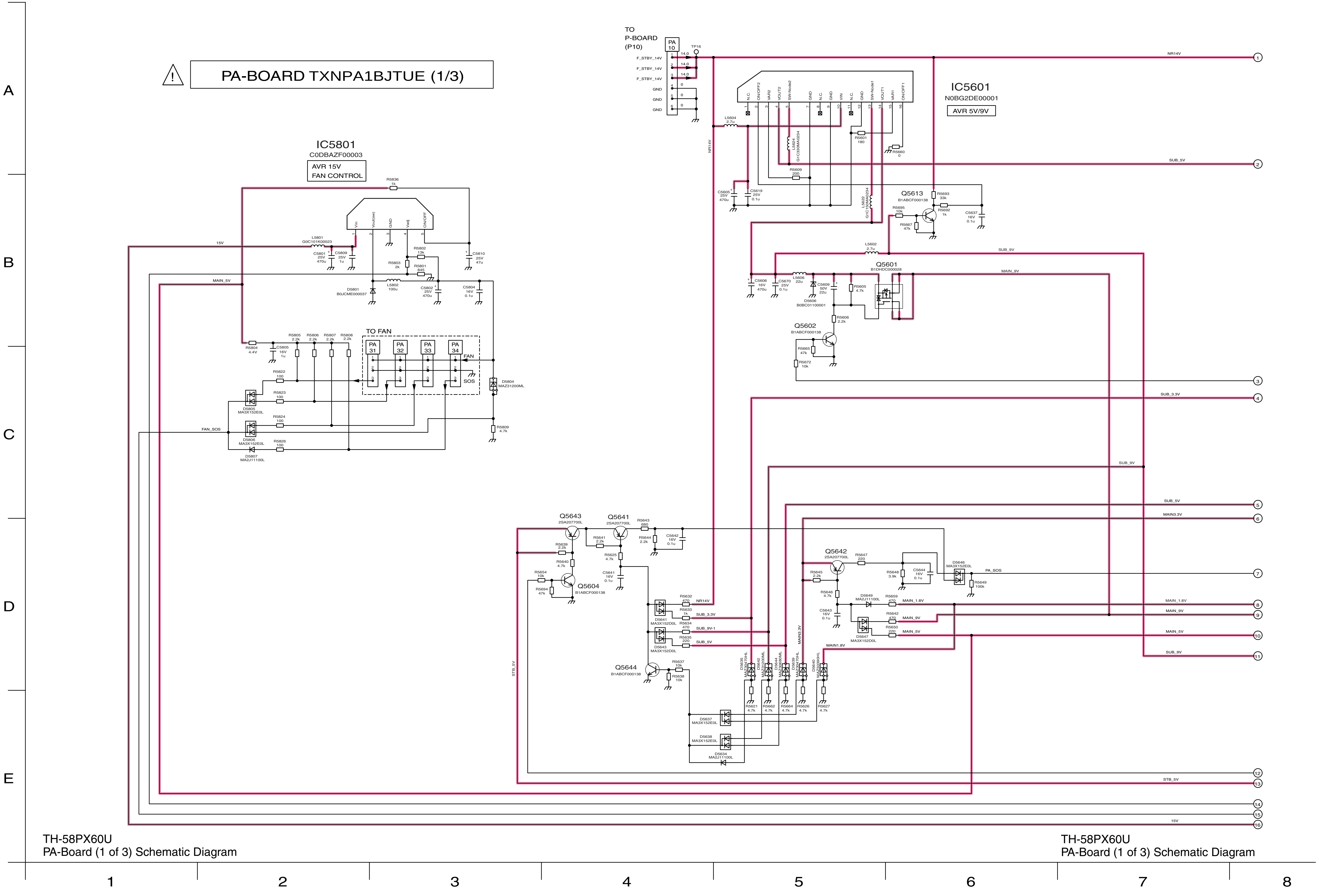
15.7. PA-Board Block Diagram


TO P10
PA10
F_STBY_14V
F_STBY_14V
F_STBY_14V
TP16
IC5601
AVR 5V/9V
ON/OFF1
VOUT1
VIN
ON/OFF2
VOUT2
SUB9V/
MAIN9V
SUB5V/MAIN5V
Q5603
MAIN5V
ON/OFF
Q5605
Q5610
IC5602
AVR 1.8V/3.3V
ON/OFF1
VOUT1
VIN
ON/OFF2
VOUT2
MAIN3.3V(2.5A)
MAIN1.8V(1.2A)
IC5604
AVR 3.3V
VIN
VOUT
Q5613
SUB9V(2.2A)
Q5601
MAIN_9V(0.4A)
ON/OFF
Q5602
SUB9V(1.7A)
MAIN_9V(0.1A)
SUB5V(1.0A)
MAIN5V(0.37A)
MAIN3.3V(1.55A)
MAIN1.8V(1.2A)
TPS9
TPS9V
TPM9
TPM9V
TPS5
TPS5V
TPM5
TPM5V
TPM33
TPM33V
TPM18
TPM18V
TUNER_MAIN_ON
TV_SUB_ON
SOS
TP5616
TP5615
TP5617
PA SOS
LED BLINKING : 10TIMES
SUB3.3V
TPS33
TPS33V
PA20
TO DG20
SUB9V
SUB9V
SUB9V
MAIN9V
SUB5V
SUB5V
MAIN5V
MAIN5V
MAIN3.3V
MAIN3.3V
MAIN3.3V
MAIN1.8V
MAIN1.8V
TUNER_MAIN_ON
TUNER_SUB_ON
PA_SOS
SOUND_SOS
FAN_CONT
FAN_SOS
SL
SR
Q5643
Q5641
Q5604
ON/OFF
Q5642
D5646
NR14V
SUB_3.3V
D5641
SUB_9V-1
SUB_5V
D5643
D5649
MAIN_1.8V
MAIN_9V
MAIN_5V
D5647
D5635
D5642
D5644
D5639
D5634
D5637
Q5644
D5640
D5638
STB5V1
STB5V1
PA40
TO H40
STB5V
SUB9V
MAIN9V
SUB5VA
SUB5VA
SUB3.3V
MAIN3.3V
AMUTE
IC5801
AVR 15V
FAN CONTROL
Vin
Vadj
ON/OFF
Vout
(sw)
MAIN9V
Q2300
SOUND SOS
LED BLINKING : 12TIMES
PA5
TO P5
+15V
+15V
+15V
+15V
+15V
D2309
PA31
FAN
SOS
D5805
PA32
FAN
SOS
D5804
PA33
FAN
SOS
D5806
PA34
FAN
SOS
D5807
FAN SOS
LED BLINKING : 11TIMES
IC2304
OP AMP
Q2306
Q2302
Q2307
Q2303
IC2306
OP AMP
MAIN9V
IC2302
SPEAKER AMP
RINP
LINP
PVCCL
PVCCL
PVCCR
PVCCR
SHUTDOWN
FAULT
AVCC
LOUTP
LOUTP
LOUTN
LOUTN
ROUTN
ROUTN
ROUTP
ROUTP
Q2301
PA2
TO SPEAKER
(W-R & W-L)
W_L-
W_L+
W_R-
W_R+
PA
DC-DC CONVERTER
SPEAKER OUT/AUDIO AMP
FAN CONTROL

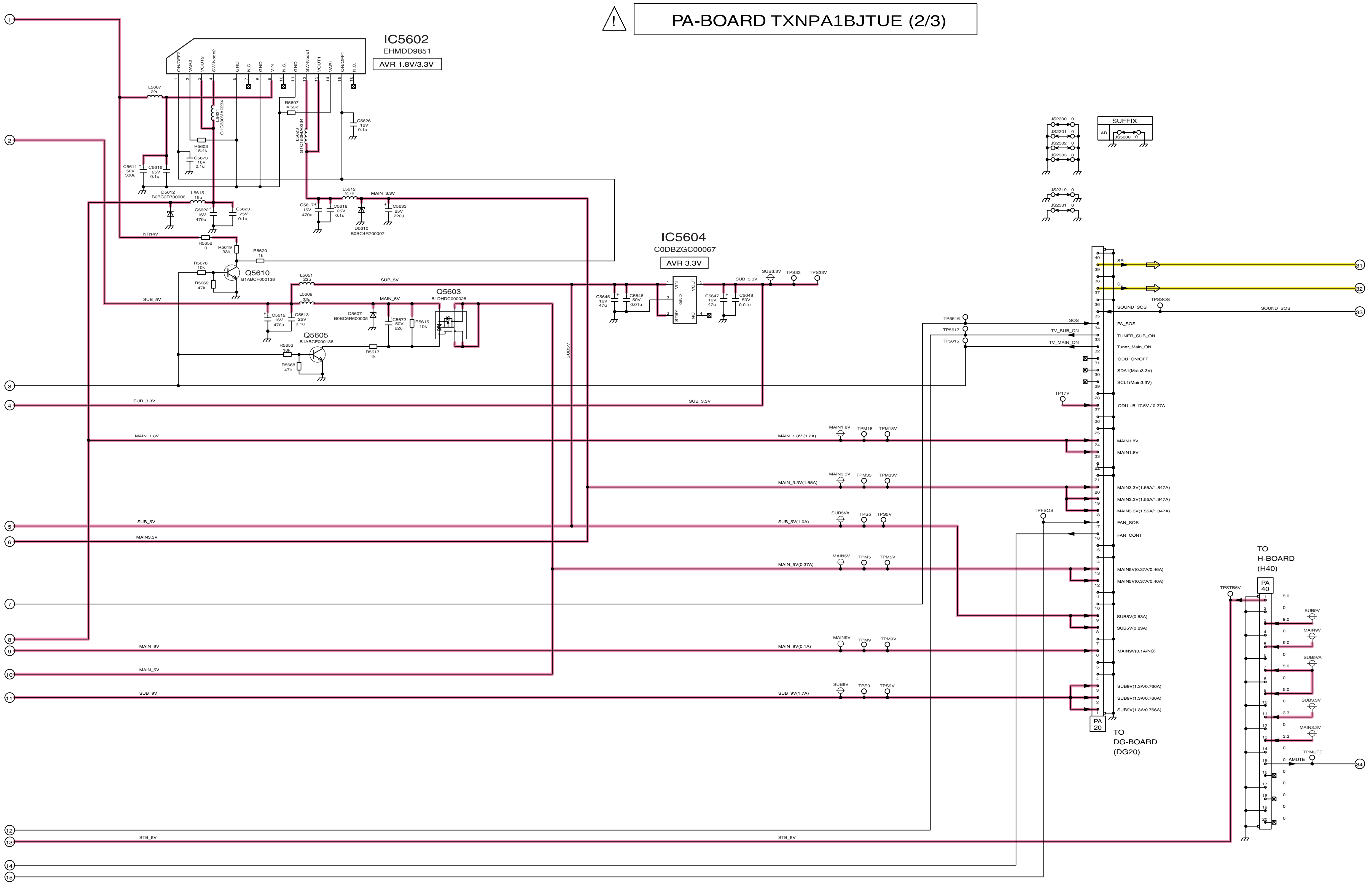
TH-58PX60U
PA-Board Block Diagram

TH-58PX60U
PA-Board Block Diagram

15.8. PA-Board (1 of 3) Schematic Diagram


PA-BOARD TXNPA1BJTUE (1/3)
A
B
C
D
E
1
2
3
4
5
6
7
8
IC5801
C0DBAZF00003
AVR 15V
FAN CONTROL
Vin
Vout(sw)
GND
Vadj
ON/OFF
TO FAN
PA 31
PA 32
PA 33
PA 34
FAN
SOS
FAN_SOS
MAIN_5V
15V
TO
P-BOARD
(P10)
PA 10
F_STBY_14V
F_STBY_14V
F_STBY_14V
GND
GND
GND
TP16
NR14V
IC5601
N0BG2DE00001
AVR 5V/9V
N.C.
ON/OFF2
VAR2
VOUT2
SW-Node2
GND
N.C.
GND
VIN
N.C.
GND
SW-Node1
VOUT1
VAR1
ON/OFF1
Q5613
Q5601
Q5602
Q5643
Q5641
Q5642
Q5604
Q5644
SUB_5V
SUB_9V
MAIN_9V
SUB_3.3V
MAIN3.3V
PA_SOS
MAIN_1.8V
MAIN_9V
MAIN_5V
STB_5V
15V
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
⑬
⑭
⑮
⑯
TH-58PX60U
PA-Board (1 of 3) Schematic Diagram
TH-58PX60U
PA-Board (1 of 3) Schematic Diagram

15.9. PA-Board (2 of 3) Schematic Diagram

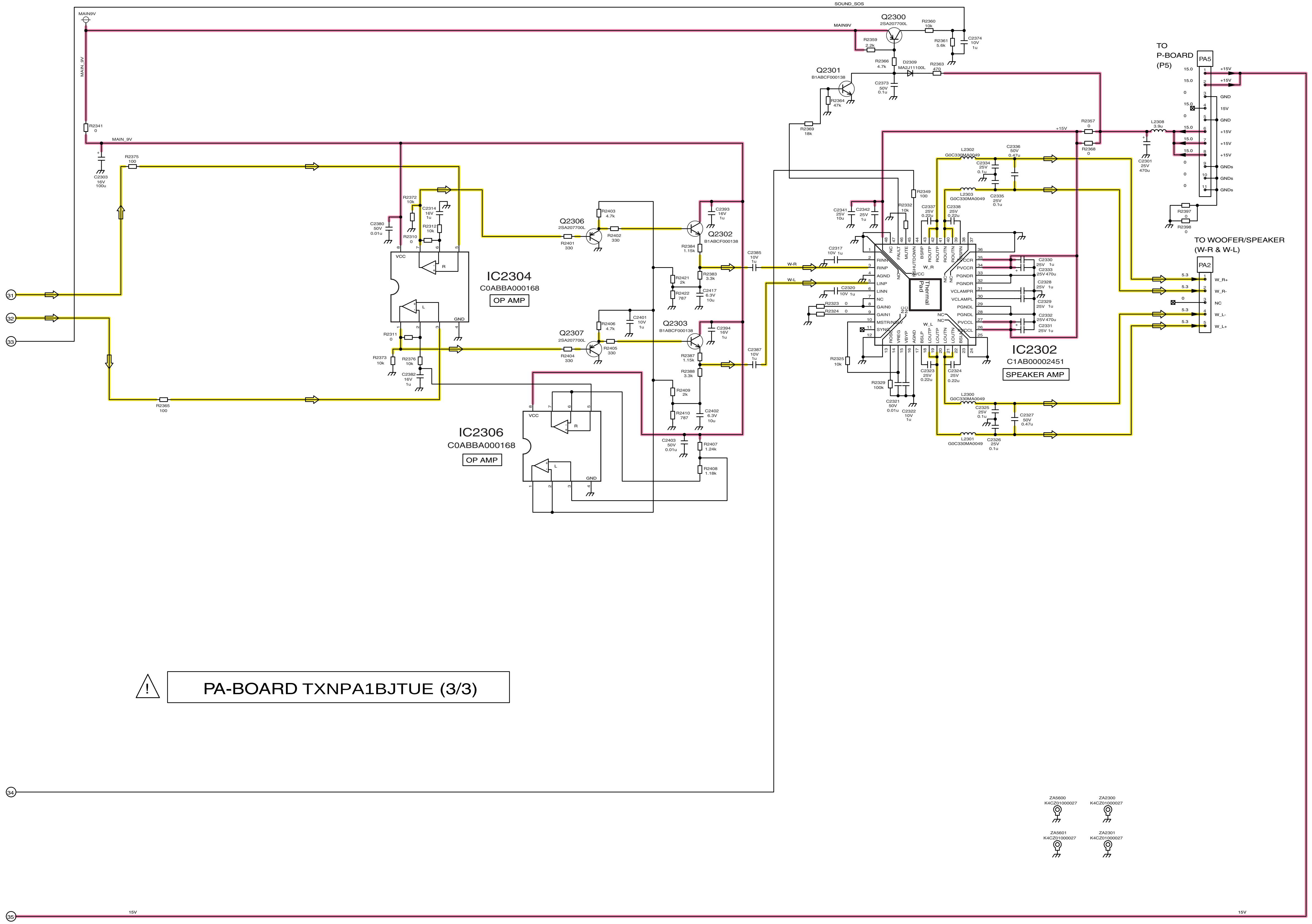

PA-BOARD TXNPA1BJTUE (2/3)
IC5602
EHMDD9851
AVR 1.8V/3.3V
ON/OFF2
VAR2
VOUT2
SW-Node2
GND
N.C.
VIN
SW-Node1
VOUT1
VAR1
ON/OFF1
IC5604
C0DBZGC00067
AVR 3.3V
VIN
VOUT
GND
STBY
NC
Q5610
B1ABCF000138
Q5603
B1DHDC000028
Q5605
B1ABCF000138
L5607 22u
R5607 4.53k
R5603 15.4k
C5626 16V 0.1u
C5611 50V 330u
C5616 25V 0.1u
C5673 16V 0.1u
D5612 B0BC3R700006
L5615 15u
C5622 16V 470u
C5623 25V 0.1u
C5617 16V 470u
C5618 25V 0.1u
L5612 2.7u
C5633 25V 220u
D5610 B0BC4R700007
MAIN_3.3V
NR14V
R5662 0
R5619 33k
R5620 1k
R5676 10k
R5669 47k
L5651 22u
L5609 22u
SUB_5V
MAIN_5V
C5612 16V 470u
C5613 25V 0.1u
D5607 B0BC6R600005
C5672 50V 22u
R5615 10k
R5653 10k
R5668 47k
R5617 1k
C5645 16V 47u
C5646 50V 0.01u
C5647 16V 47u
C5648 50V 0.01u
SUB3.3V
TPS33
TPS33V
SUB_3.3V
SUB5V
MAIN_1.8V
MAIN_3.3V(1.55A)
SUB_5V(1.0A)
MAIN_5V(0.37A)
MAIN_9V
MAIN_9V(0.1A)
SUB_9V
SUB_9V(1.7A)
MAIN3.3V
STB_5V
15V
MAIN1.8V
TPM18
TPM18V
MAIN3.3V
TPM33
TPM33V
SUB5VA
TPS5
TPS5V
MAIN5V
TPM5
TPM5V
MAIN9V
TPM9
TPM9V
SUB9V
TPS9
TPS9V
TP5616
TP5617
TP5615
TP17V
TPFSOS
SOS
TV_SUB_ON
TV_MAIN_ON
SR
SL
SOUND_SOS
PA_SOS
TUNER_SUB_ON
Tuner_Main_ON
ODU_ON/OFF
SDA1(Main3.3V)
SCL1(Main3.3V)
ODU +B 17.5V / 0.27A
MAIN1.8V
MAIN3.3V(1.55A/1.847A)
FAN_SOS
FAN_CONT
MAIN5V(0.37A/0.46A)
SUB5V(0.63A)
MAIN9V(0.1A/NC)
SUB9V(1.3A/0.766A)
PA 20
TO DG-BOARD (DG20)
TO H-BOARD (H40)
PA 40
TPSTB5V
SUB9V
MAIN9V
SUB5VA
SUB3.3V
MAIN3.3V
TPMUTE
AMUTE
SUFFIX
AB
JS5600
JS2300
JS2301
JS2302
JS2303
JS2319
JS2331
TPSSOS
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
31
32
33
34
35

TH-58PX60U
PA-Board 2 of 3) Schematic Diagram

TH-58PX60U
PA-Board (2 of 3) Schematic Diagram

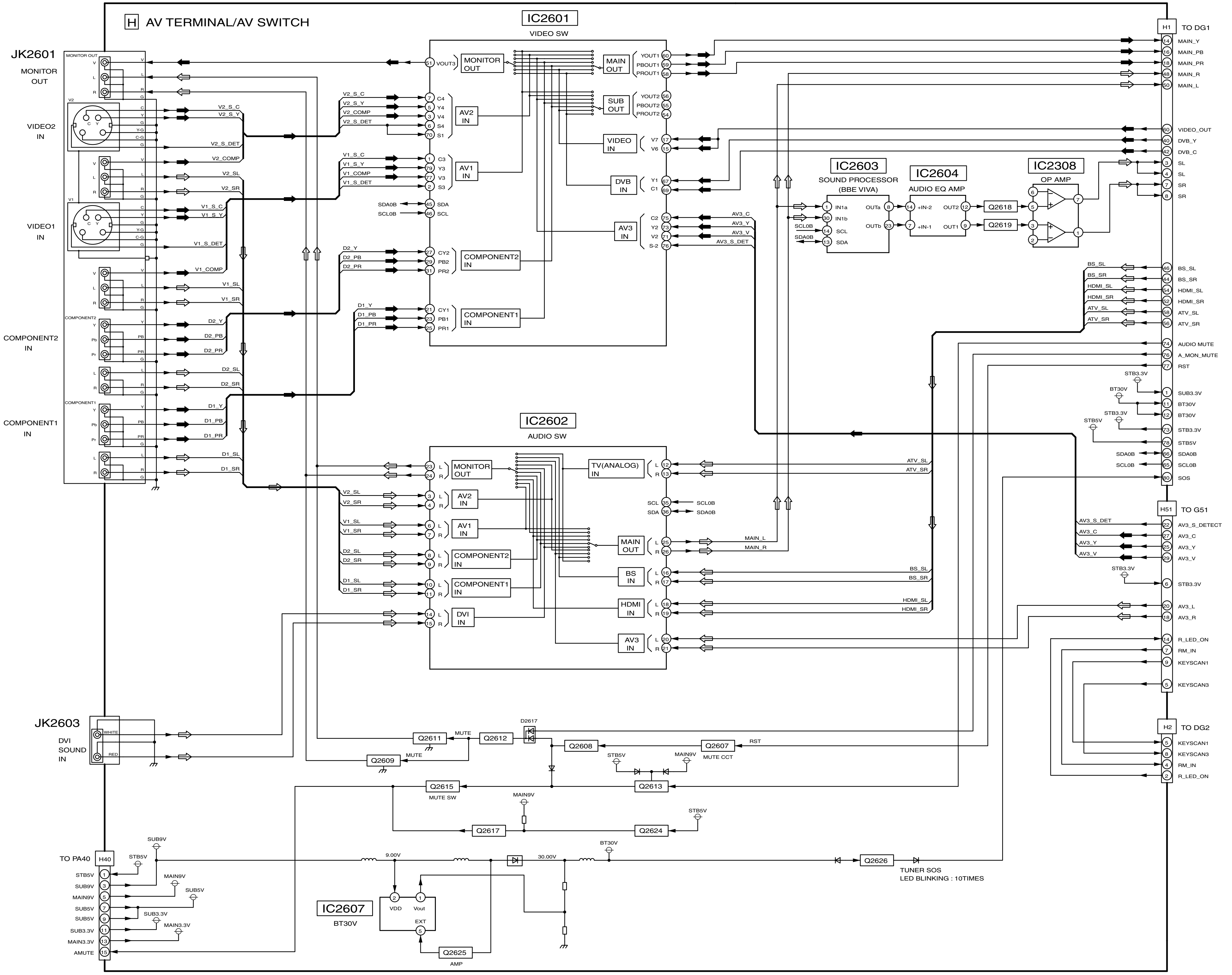
8 9 10 11 12 13 14 15

15.10. PA-Board (3 of 3) Schematic Diagram

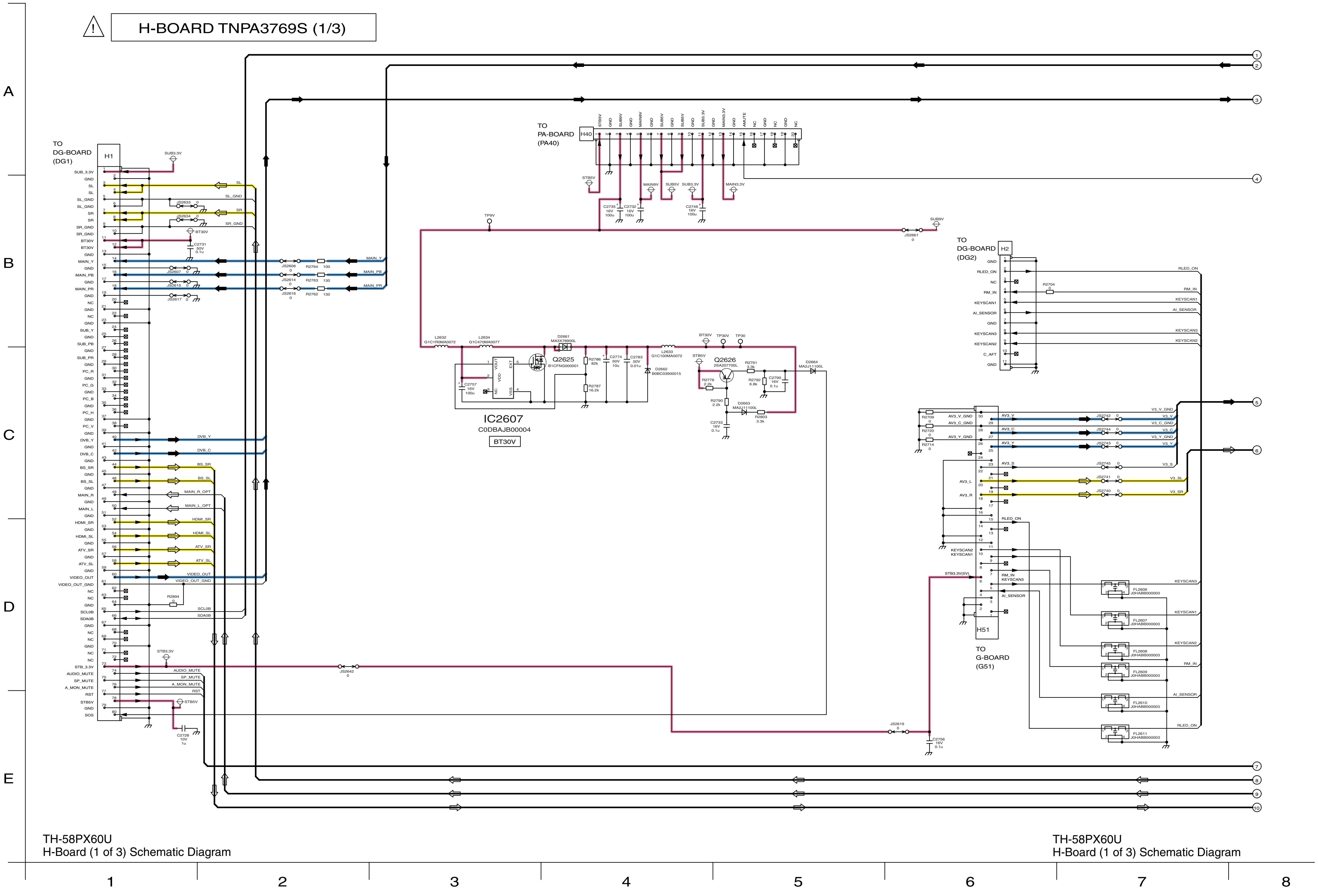

SOUND_SOS
MAIN9V
MAIN_9V
Q2300
2SA207700L
Q2301
B1ABCF000138
Q2302
B1ABCF000138
Q2303
B1ABCF000138
Q2306
2SA207700L
Q2307
2SA207700L
IC2304
C0ABBA000168
OP AMP
IC2306
C0ABBA000168
OP AMP
IC2302
C1AB00002451
SPEAKER AMP
Thermal Pad
VCC
GND
W-R
W-L
+15V
15V
TO
P-BOARD
(P5)
PA5
TO WOOFER/SPEAKER
(W-R & W-L)
PA2
+15V
GND
GNDs
W_R+
W_R-
NC
W_L-
W_L+
L2300 G0C330MA0049
L2301 G0C330MA0049
L2302 G0C330MA0049
L2303 G0C330MA0049
L2308 3.9u
D2309 MA2J11100L
ZA5600 K4CZ01000027
ZA2300 K4CZ01000027
ZA5601 K4CZ01000027
ZA2301 K4CZ01000027
31
32
33
34
35
PA-BOARD TXNPA1BJTUE (3/3)

TH-58PX60U
PA-Board (3 of 3) Schematic Diagram

15.11. H-Board Block Diagram


H AV TERMINAL/AV SWITCH
JK2601
MONITOR OUT
VIDEO2 IN
VIDEO1 IN
COMPONENT2 IN
COMPONENT1 IN
JK2603
DVI SOUND IN
WHITE
RED
IC2601
VIDEO SW
MONITOR OUT
VOUT3
MAIN OUT
YOUT1
PBOUT1
PROUT1
SUB OUT
YOUT2
PBOUT2
PROUT2
VIDEO IN
DVB IN
AV3 IN
AV2 IN
AV1 IN
COMPONENT2 IN
COMPONENT1 IN
V2_S_C
V2_S_Y
V2_COMP
V2_S_DET
V1_S_C
V1_S_Y
V1_COMP
V1_S_DET
V2_SL
V2_SR
V1_SL
V1_SR
D2_Y
D2_PB
D2_PR
D2_SL
D2_SR
D1_Y
D1_PB
D1_PR
D1_SL
D1_SR
SDA0B
SCL0B
AV3_C
AV3_Y
AV3_V
AV3_S_DET
IC2602
AUDIO SW
MONITOR OUT
TV(ANALOG) IN
MAIN OUT
BS IN
HDMI IN
AV3 IN
DVI IN
MAIN_L
MAIN_R
ATV_SL
ATV_SR
BS_SL
BS_SR
HDMI_SL
HDMI_SR
IC2603
SOUND PROCESSOR
(BBE VIVA)
IN1a
IN1b
OUTa
OUTb
SCL
SDA
IC2604
AUDIO EQ AMP
+IN-2
+IN-1
OUT2
OUT1
Q2618
Q2619
IC2308
OP AMP
H1 TO DG1
MAIN_Y
MAIN_PB
MAIN_PR
MAIN_R
MAIN_L
VIDEO_OUT
DVB_Y
DVB_C
SL
SR
BS_SL
BS_SR
HDMI_SL
HDMI_SR
ATV_SL
ATV_SR
AUDIO MUTE
A_MON_MUTE
RST
SUB3.3V
BT30V
STB3.3V
STB5V
SDA0B
SCL0B
SOS
H51 TO G51
AV3_S_DETECT
AV3_C
AV3_Y
AV3_V
STB3.3V
AV3_L
AV3_R
R_LED_ON
RM_IN
KEYSCAN1
KEYSCAN3
H2 TO DG2
KEYSCAN1
KEYSCAN3
RM_IN
R_LED_ON
D2617
Q2611
MUTE
Q2612
Q2608
Q2607
MUTE CCT
RST
Q2609
MUTE
Q2615
MUTE SW
Q2613
MAIN9V
STB5V
Q2617
Q2624
TO PA40
H40
STB5V
SUB9V
MAIN9V
SUB5V
SUB3.3V
MAIN3.3V
AMUTE
9.00V
30.00V
BT30V
Q2626
TUNER SOS
LED BLINKING : 10TIMES
IC2607
BT30V
VDD
Vout
EXT
Q2625
AMP

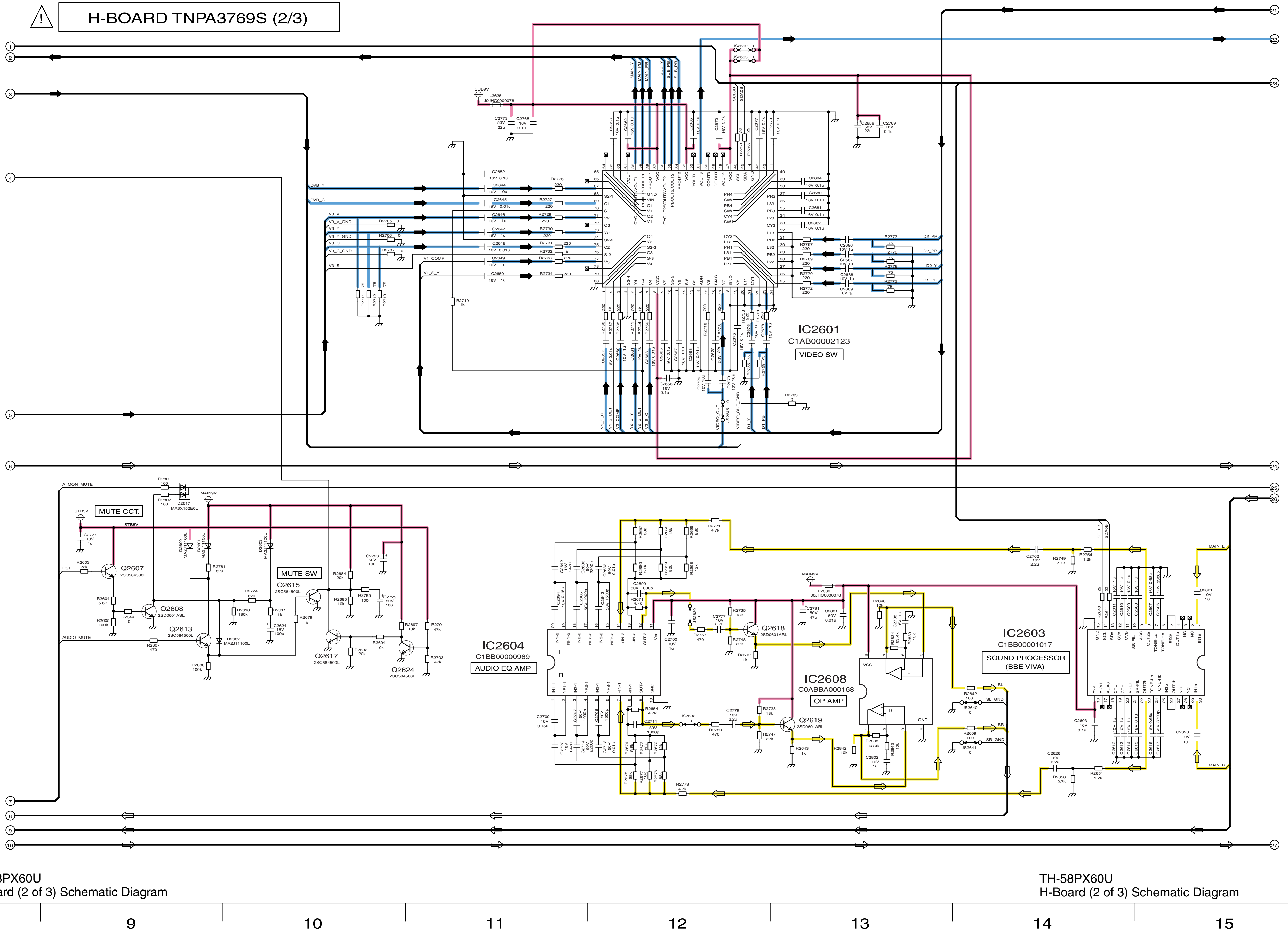
15.12. H-Board (1 of 3) Schematic Diagram


H-BOARD TNPA3769S (1/3)
A
B
C
D
E
1
2
3
4
5
6
7
8
TO DG-BOARD (DG1)
H1
SUB3.3V
SUB_3.3V
GND
SL
SL_GND
SR
SR_GND
BT30V
MAIN_Y
MAIN_PB
MAIN_PR
NC
SUB_Y
SUB_PB
SUB_PR
PC_R
PC_G
PC_B
PC_H
PC_V
DVB_Y
DVB_C
BS_SR
BS_SL
MAIN_R
MAIN_L
HDMI_SR
HDMI_SL
ATV_SR
ATV_SL
VIDEO_OUT
VIDEO_OUT_GND
SCL0B
SDA0B
MAIN_R_OPT
MAIN_L_OPT
STB_3.3V
AUDIO_MUTE
SP_MUTE
A_MON_MUTE
RST
STB5V
SOS
STB3.3V
JS2633
JS2634
C2731 50V 0.1u
JS2606
JS2607
JS2614
JS2615
JS2616
JS2617
R2764 100
R2763 130
R2762 130
R2894 0
C2728 10V 1u
JS2642 0
TO PA-BOARD (PA40)
H40
STB5V
SUB9V
MAIN9V
SUB5V
SUB3.3V
MAIN3.3V
AMUTE
C2735 16V 100u
C2732 16V 100u
C2746 16V 100u
TP9V
SUB9V
JS2661 0
L2632 G1C1R0MA0072
L2634 G1C470MA0077
D2661 MA3X78600L
Q2625 B1CFNG000001
R2786 82k
R2787 16.2k
C2774 50V 10u
C2783 50V 0.01u
L2633 G1C100MA0072
D2662 B0BC03900015
BT30V
TP30V
TP30
STB5V
Q2626 2SA207700L
R2791 3.3k
R2792 6.8k
C2790 16V 0.1u
D2664 MA2J11100L
R2776 2.2k
R2790 2.2k
D2663 MA2J11100L
R2803 3.3k
C2733 16V 0.1u
C2757 16V 100u
VOUT
VDD
NC
EXT
VSS
IC2607
C0DBAJB00004
BT30V
TO DG-BOARD (DG2)
H2
GND
RLED_ON
RM_IN
KEYSCAN1
AI_SENSOR
KEYSCAN3
KEYSCAN2
C_AFT
R2704 0
AV3_V_GND
AV3_C_GND
AV3_Y_GND
AV3_V
AV3_C
AV3_Y
AV3_S
AV3_L
AV3_R
R2709 0
R2720 0
R2714 0
JS2742 0
JS2744 0
JS2743 0
JS2745 0
JS2741 0
JS2740 0
V3_V_GND
V3_V
V3_C_GND
V3_C
V3_Y_GND
V3_Y
V3_S
V3_SL
V3_SR
STB3.3V(5V)
JS2619 0
C2756 16V 0.1u
H51
TO G-BOARD (G51)
FL2606 J0HABB000003
FL2607 J0HABB000003
FL2608 J0HABB000003
FL2609 J0HABB000003
FL2610 J0HABB000003
FL2611 J0HABB000003
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩

TH-58PX60U
H-Board (1 of 3) Schematic Diagram

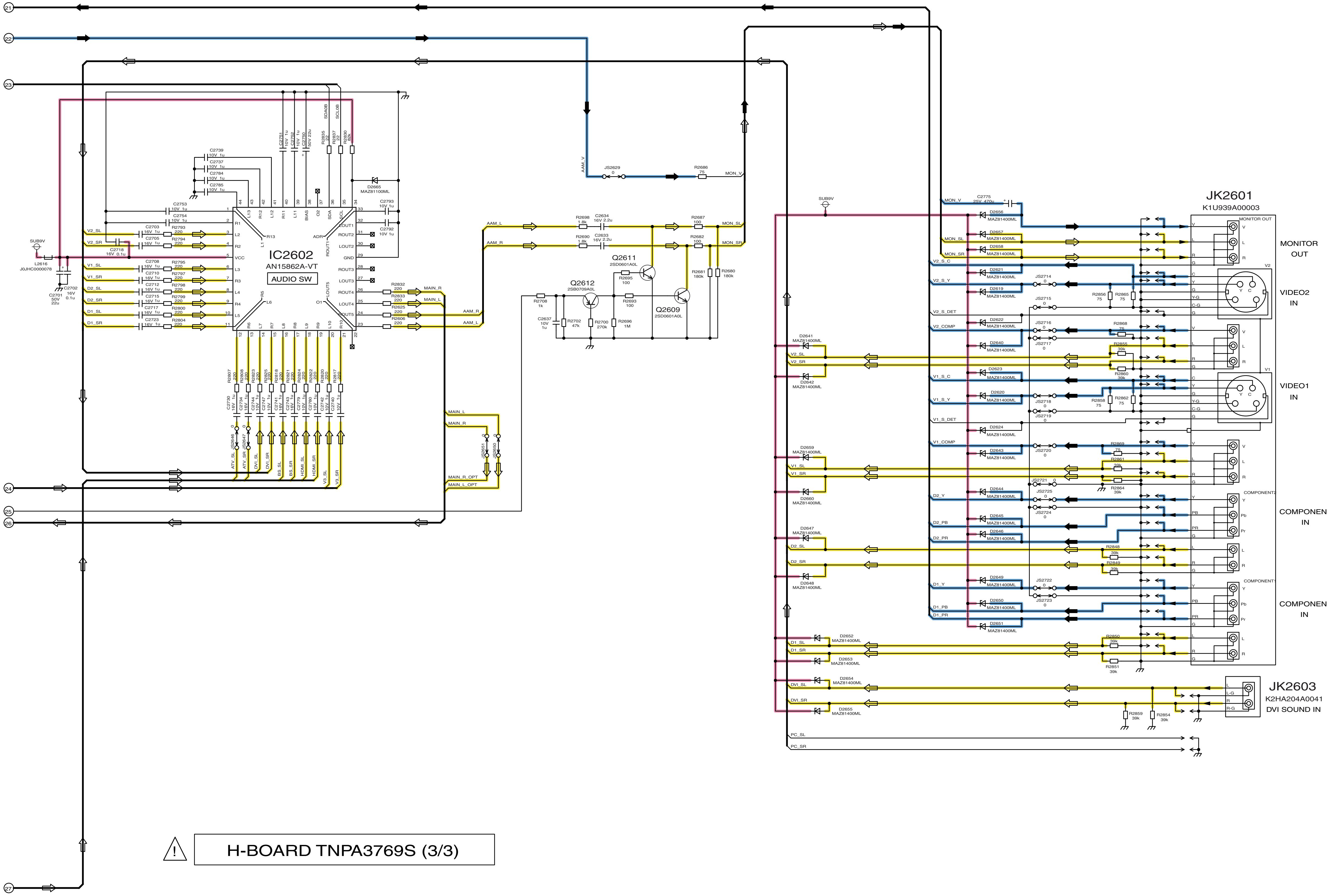
TH-58PX60U
H-Board (1 of 3) Schematic Diagram

15.13. H-Board (2 of 3) Schematic Diagram

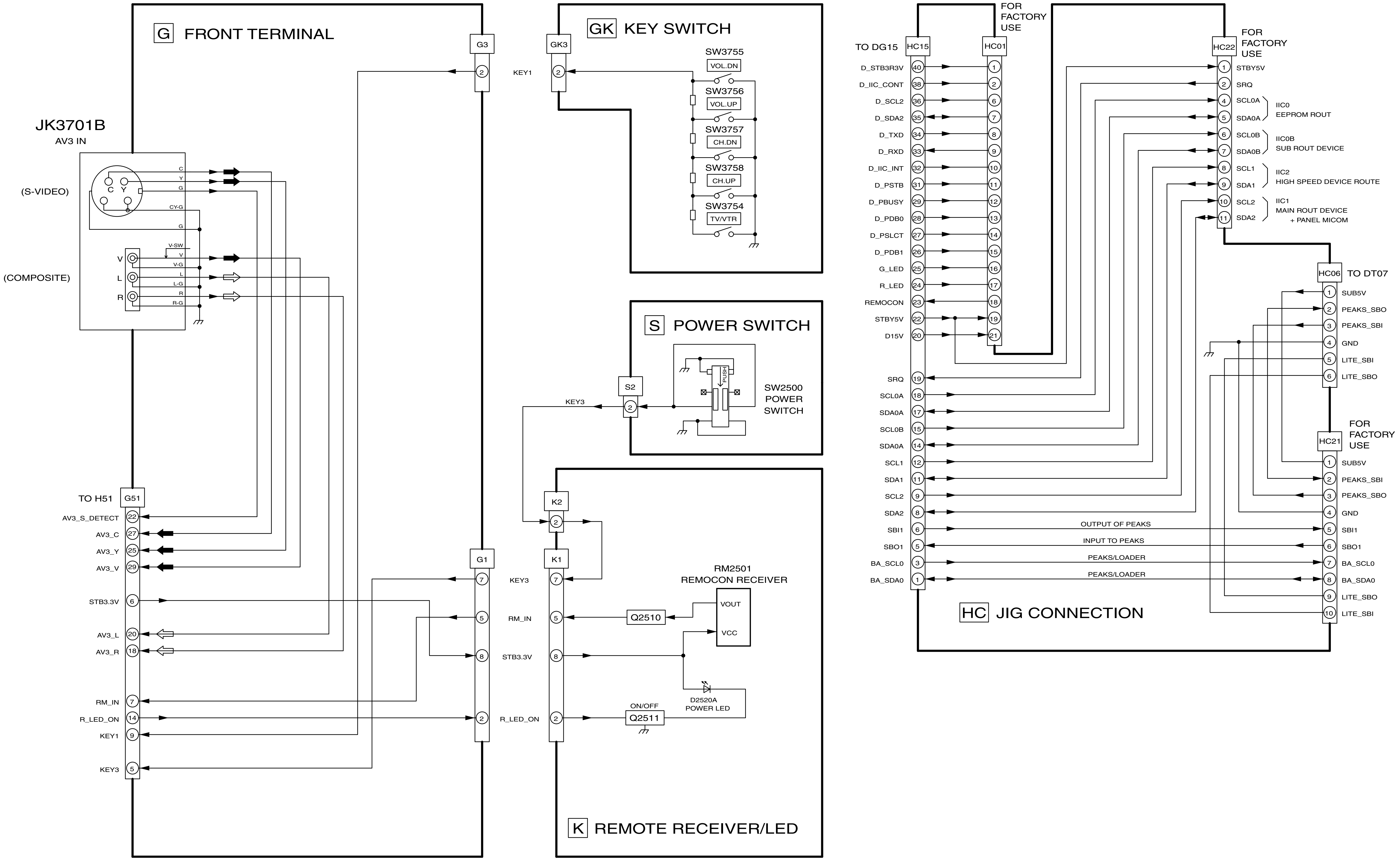

H-BOARD TNPA3769S (2/3)
IC2601
C1AB00002123
VIDEO SW
IC2603
C1BB00001017
SOUND PROCESSOR (BBE VIVA)
IC2604
C1BB00000969
AUDIO EQ AMP
IC2608
C0ABBA000168
OP AMP
MUTE CCT.
MUTE SW
Q2607
2SC584500L
Q2608
2SD0601ASL
Q2613
2SC584500L
Q2615
2SC584500L
Q2617
2SC584500L
Q2624
2SC584500L
Q2618
2SD0601ARL
Q2619
2SD0601ARL
D2617
MA3X152E0L
D2602
MA2J11100L
L2625
J0JHC0000078
L2636
J0JHC0000078
SUB9V
MAIN9V
STB5V
A_MON_MUTE
AUDIO_MUTE
RST
DVB_Y
DVB_C
V3_V
V3_V_GND
V3_Y
V3_Y_GND
V3_C
V3_C_GND
V3_S
V1_COMP
V1_S_Y
MAIN_Y
MAIN_PB
MAIN_PR
SUB_Y
SUB_PB
SUB_PR
SCL08
SDA08
D2_PR
D2_PB
D2_Y
D1_PR
V1_S_C
V1_S_DET
V2_COMP
V2_S_Y
V2_S_DET
V2_S_C
VIDEO_OUT
VIDEO_OUT_GND
D1_Y
D1_PB
JS2662
JS2663
MAIN_L
MAIN_R
SL
SL_GND
SR
SR_GND
1
2
3
4
5
6
7
8
9
10
21
22
23
24
25
26
27
8
9
10
11
12
13
14
15

TH-58PX60U
H-Board (2 of 3) Schematic Diagram

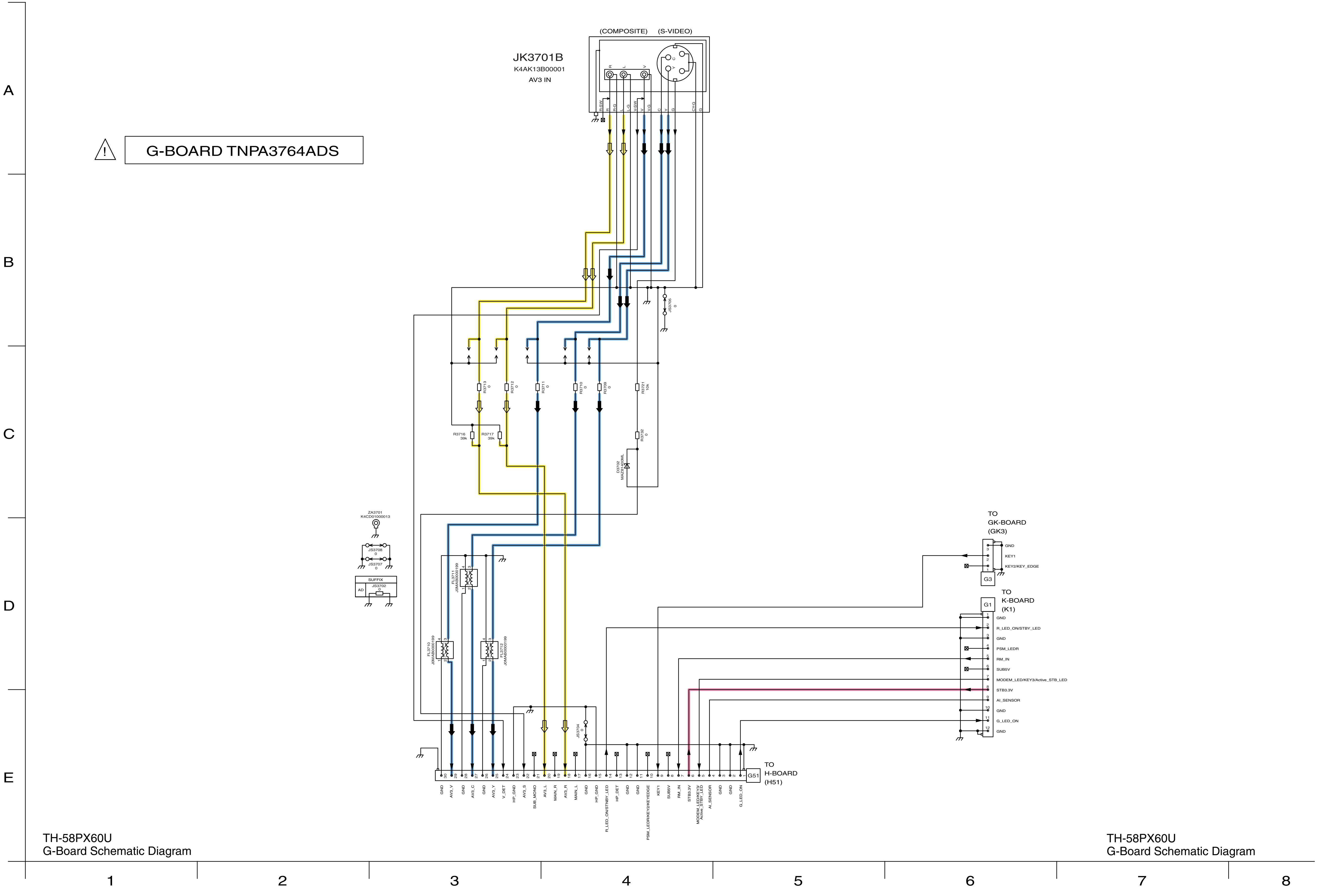
15.14. H-Board (3 of 3) Schematic Diagram


IC2602
AN15862A-VT
AUDIO SW
Q2611
2SD0601A0L
Q2612
2SB0709A0L
Q2609
2SD0601A0L
JK2601
K1U939A00003
MONITOR OUT
VIDEO2 IN
VIDEO1 IN
COMPONENT2 IN
COMPONENT1 IN
JK2603
K2HA204A0041
DVI SOUND IN
SUB9V
AAM_L
AAM_R
MON_SL
MON_SR
MON_V
MAIN_L
MAIN_R
MAIN_R_OPT
MAIN_L_OPT
V2_SL
V2_SR
V1_SL
V1_SR
D2_SL
D2_SR
D1_SL
D1_SR
DVI_SL
DVI_SR
PC_SL
PC_SR
H-BOARD TNPA3769S (3/3)

15.15. G, GK, HC, K and S-Board Block Diagram


G FRONT TERMINAL
G3
JK3701B
AV3 IN
(S-VIDEO)
(COMPOSITE)
C Y
C
Y
G
CY-G
G
V-SW
V
V-G
L
L-G
R
R-G
V
L
R
TO H51
G51
AV3_S_DETECT 22
AV3_C 27
AV3_Y 25
AV3_V 29
STB3.3V 6
AV3_L 20
AV3_R 18
RM_IN 7
R_LED_ON 14
KEY1 9
KEY3 5
G1
KEY1
GK3
GK KEY SWITCH
SW3755 VOL.DN
SW3756 VOL.UP
SW3757 CH.DN
SW3758 CH.UP
SW3754 TV/VTR
S POWER SWITCH
S2
KEY3
PUSH
SW2500
POWER
SWITCH
K2
K1
KEY3
RM_IN
STB3.3V
R_LED_ON
RM2501
REMOCON RECEIVER
VOUT
VCC
Q2510
ON/OFF
Q2511
D2520A
POWER LED
K REMOTE RECEIVER/LED
TO DG15
HC15
FOR FACTORY USE
HC01
D_STB3R3V 40
D_IIC_CONT 38
D_SCL2 36
D_SDA2 35
D_TXD 34
D_RXD 33
D_IIC_INT 32
D_PSTB 31
D_PBUSY 29
D_PDB0 28
D_PSLCT 27
D_PDB1 26
G_LED 25
R_LED 24
REMOCON 23
STBY5V 22
D15V 20
SRQ 19
SCL0A 18
SDA0A 17
SCL0B 15
SDA0A 14
SCL1 12
SDA1 11
SCL2 9
SDA2 8
SBI1 6
SBO1 5
BA_SCL0 3
BA_SDA0 1
FOR FACTORY USE
HC22
1 STBY5V
2 SRQ
4 SCL0A
5 SDA0A
IIC0
EEPROM ROUT
6 SCL0B
7 SDA0B
IIC0B
SUB ROUT DEVICE
8 SCL1
9 SDA1
IIC2
HIGH SPEED DEVICE ROUTE
10 SCL2
11 SDA2
IIC1
MAIN ROUT DEVICE
+ PANEL MICOM
HC06
TO DT07
1 SUB5V
2 PEAKS_SBO
3 PEAKS_SBI
4 GND
5 LITE_SBI
6 LITE_SBO
FOR FACTORY USE
HC21
1 SUB5V
2 PEAKS_SBI
3 PEAKS_SBO
4 GND
5 SBI1
6 SBO1
7 BA_SCL0
8 BA_SDA0
9 LITE_SBO
10 LITE_SBI
OUTPUT OF PEAKS
INPUT TO PEAKS
PEAKS/LOADER
PEAKS/LOADER
HC JIG CONNECTION

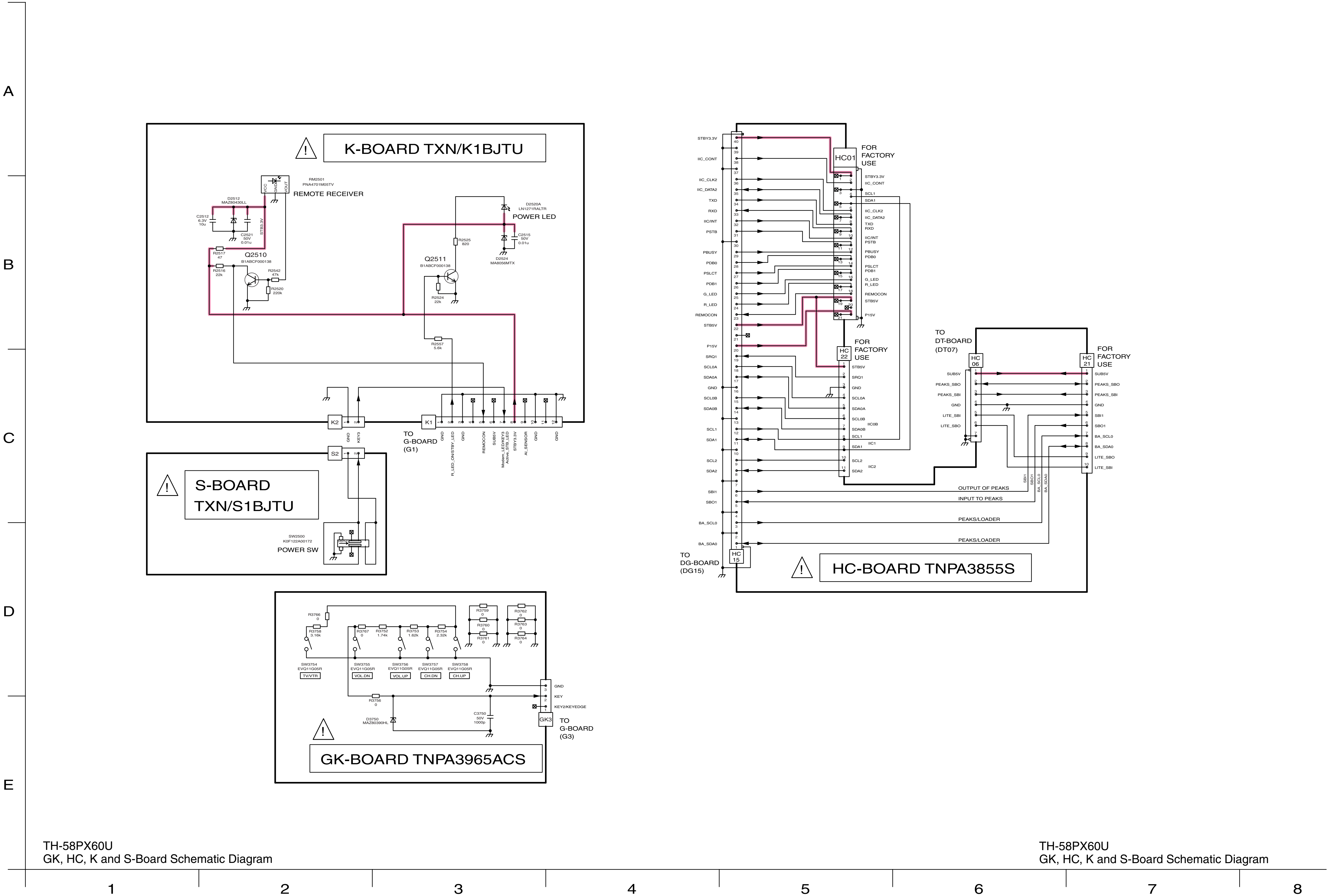
15.16. G-Board Schematic Diagram


A
B
C
D
E
1
2
3
4
5
6
7
8
!
G-BOARD TNPA3764ADS
JK3701B
K4AK13B00001
AV3 IN
(COMPOSITE)
(S-VIDEO)
R
L
V
C
Y
R-SW
R
R-G
L
L-G
V-SW
V
V-G
C
Y
G
CY-G
G
JS3705
0
R3713
0
R3712
0
R3711
0
R3710
0
R3709
0
R3721
10k
R3716
39k
R3717
39k
R3732
0
D3702
MAZ81400ML
ZA3701
K4CD01000013
JS3708
0
JS3707
0
SUFFIX
AD
JS3702
0
FL3711
J0MAB0000199
FL3710
J0MAB0000199
FL3712
J0MAB0000199
JS3704
0
TO
GK-BOARD
(GK3)
GND
KEY1
KEY2/KEY_EDGE
G3
TO
K-BOARD
(K1)
G1
GND
R_LED_ON/STBY_LED
GND
PSM_LEDR
RM_IN
SUB5V
MODEM_LED/KEY3/Active_STB_LED
STB3.3V
AI_SENSOR
GND
G_LED_ON
GND
G51
TO
H-BOARD
(H51)
GND
AV3_V
GND
AV3_C
GND
AV3_Y
V_DET
HP_GND
AV3_S
SUB_MONO
AV3_L
MAIN_R
AV3_R
MAIN_L
GND
HP_GND
R_LED_ON/STNBY_LED
HP_DET
GND
GND
PSM_LEDR/KEY2/KEYEDGE
KEY1
SUB5V
RM_IN
STB3.3V
MODEM_LED/KEY3/
Active_STBY_LED
AI_SENSOR
GND
GND
G_LED_ON

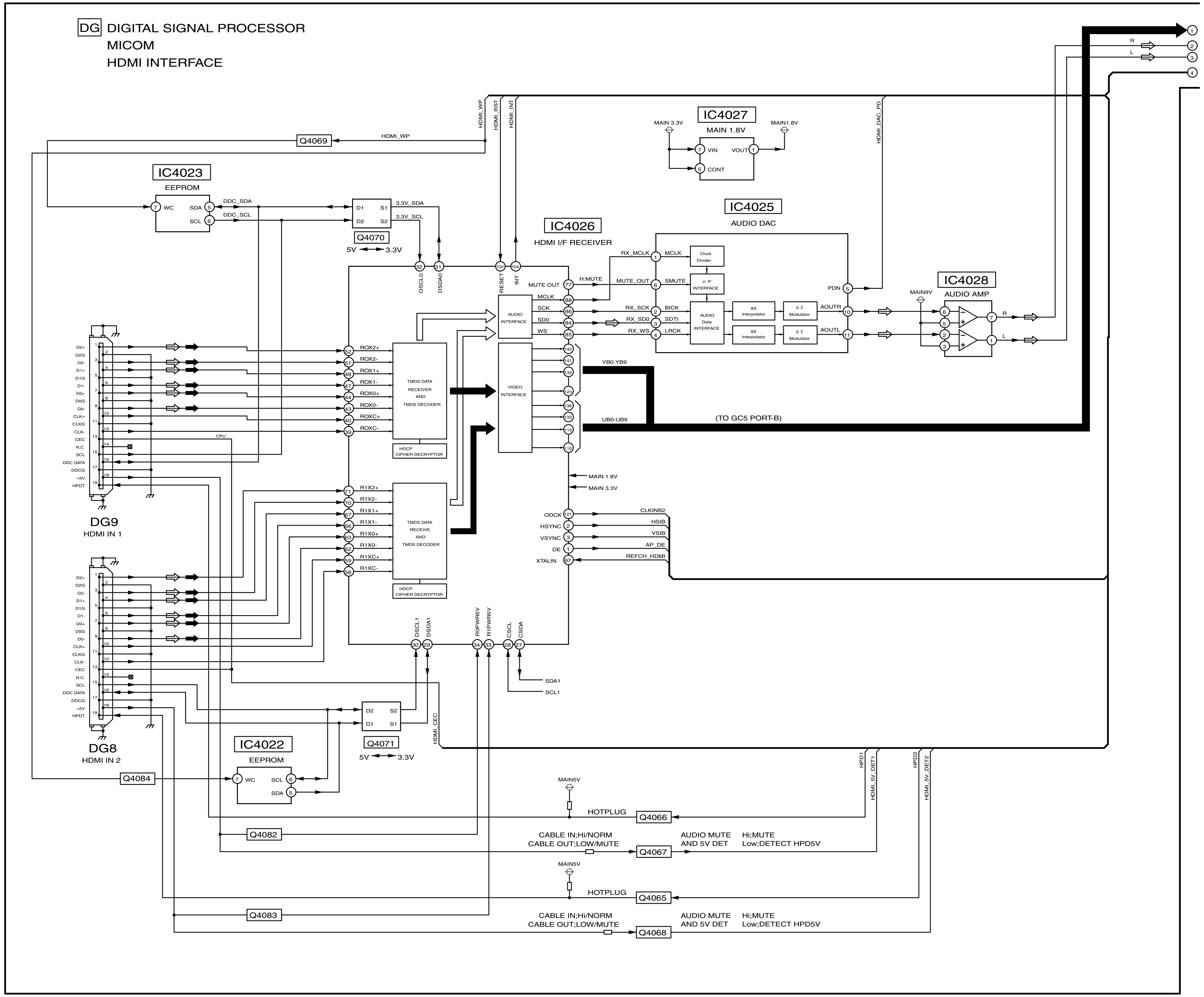
TH-58PX60U
G-Board Schematic Diagram

TH-58PX60U
G-Board Schematic Diagram

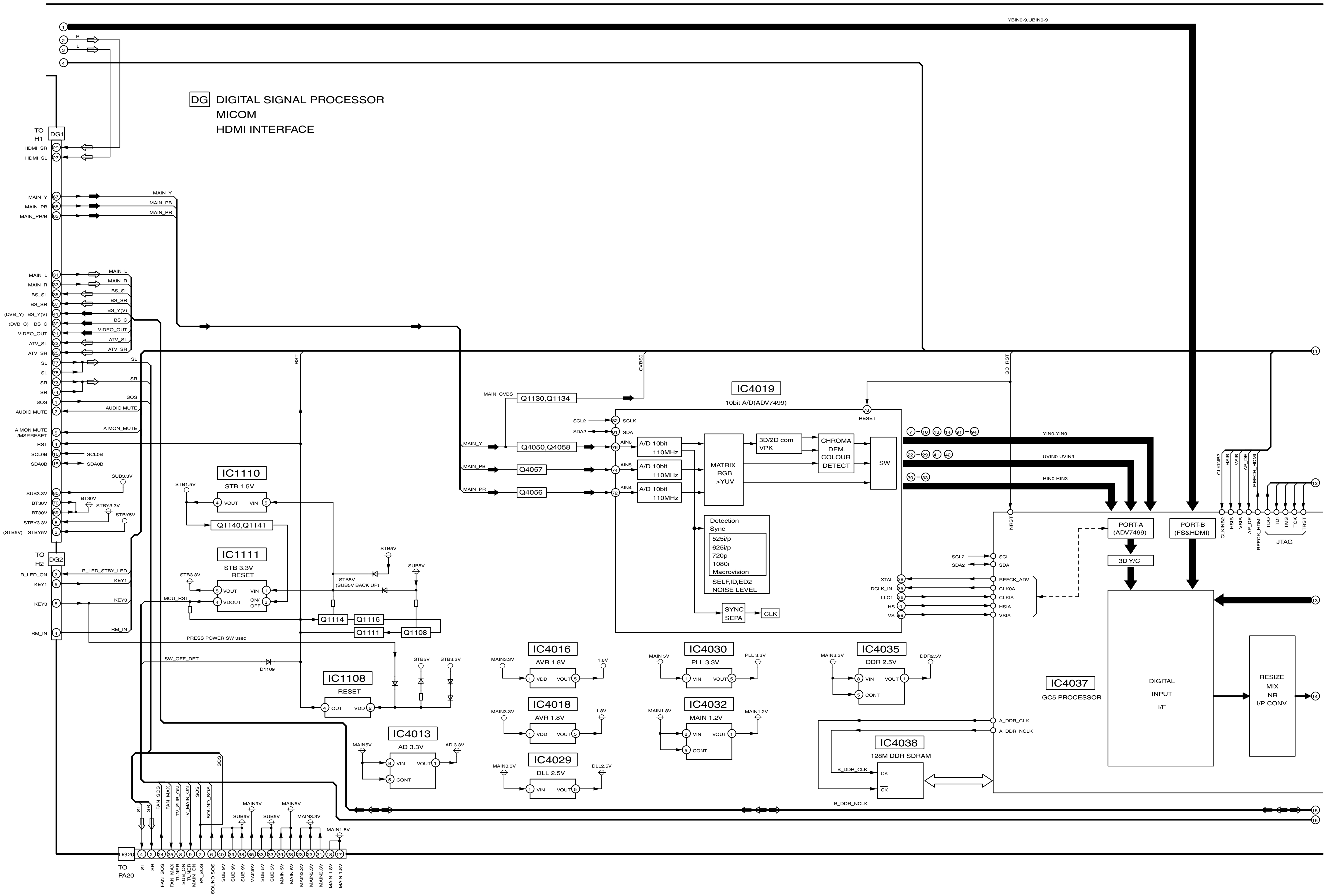
15.17. GK, K, HC and S-Board Schematic Diagram


A
B
C
D
E
K-BOARD TXN/K1BJTU
RM2501
PNA4701M05TV
REMOTE RECEIVER
D2512
MAZ80430LL
C2512
6.3V
10u
C2521
50V
0.01u
STB3.3V
R2517
47
Q2510
B1ABCF000138
R2516
22k
R2542
47k
R2520
220k
D2520A
LN1271RALTR
POWER LED
R2525
820
C2515
50V
0.01u
D2524
MA8056MTX
Q2511
B1ABCF000138
R2524
22k
R2557
5.6k
K2
K1
GND
KEY3
TO
G-BOARD
(G1)
R_LED_ON/STBY_LED
REMOCON
SUB5V
Modem_LED/KEY3
Active_STB_LED
STBY3.3V
AI_SENSOR
S2
S-BOARD
TXN/S1BJTU
SW2500
K0F122A00172
POWER SW
R3766
0
R3758
3.16k
R3767
0
R3752
1.74k
R3753
1.62k
R3754
2.32k
R3759
0
R3760
0
R3761
0
R3762
0
R3763
0
R3764
0
SW3754
EVQ11G05R
TV/VTR
SW3755
EVQ11G05R
VOL.DN
SW3756
EVQ11G05R
VOL.UP
SW3757
EVQ11G05R
CH.DN
SW3758
EVQ11G05R
CH.UP
R3756
0
D3750
MAZ80390HL
C3750
50V
1000p
GND
KEY
KEY2/KEYEDGE
GK3
TO
G-BOARD
(G3)
GK-BOARD TNPA3965ACS
STBY3.3V
IIC_CONT
IIC_CLK2
IIC_DATA2
TXD
RXD
IIC/INT
PSTB
PBUSY
PDB0
PSLCT
PDB1
G_LED
R_LED
REMOCON
STB5V
P15V
SRQ1
SCL0A
SDA0A
GND
SCL0B
SDA0B
SCL1
SDA1
SCL2
SDA2
SBI1
SBO1
BA_SCL0
BA_SDA0
HC01
FOR
FACTORY
USE
SCL1
SDA1
HC
22
FOR
FACTORY
USE
IIC0B
IIC1
IIC2
TO
DG-BOARD
(DG15)
HC
15
TO
DT-BOARD
(DT07)
HC
06
SUB5V
PEAKS_SBO
PEAKS_SBI
LITE_SBI
LITE_SBO
HC
21
FOR
FACTORY
USE
BA_SCL0
BA_SDA0
LITE_SBO
LITE_SBI
OUTPUT OF PEAKS
INPUT TO PEAKS
PEAKS/LOADER
PEAKS/LOADER
HC-BOARD TNPA3855S
1
2
3
4
5
6
7
8

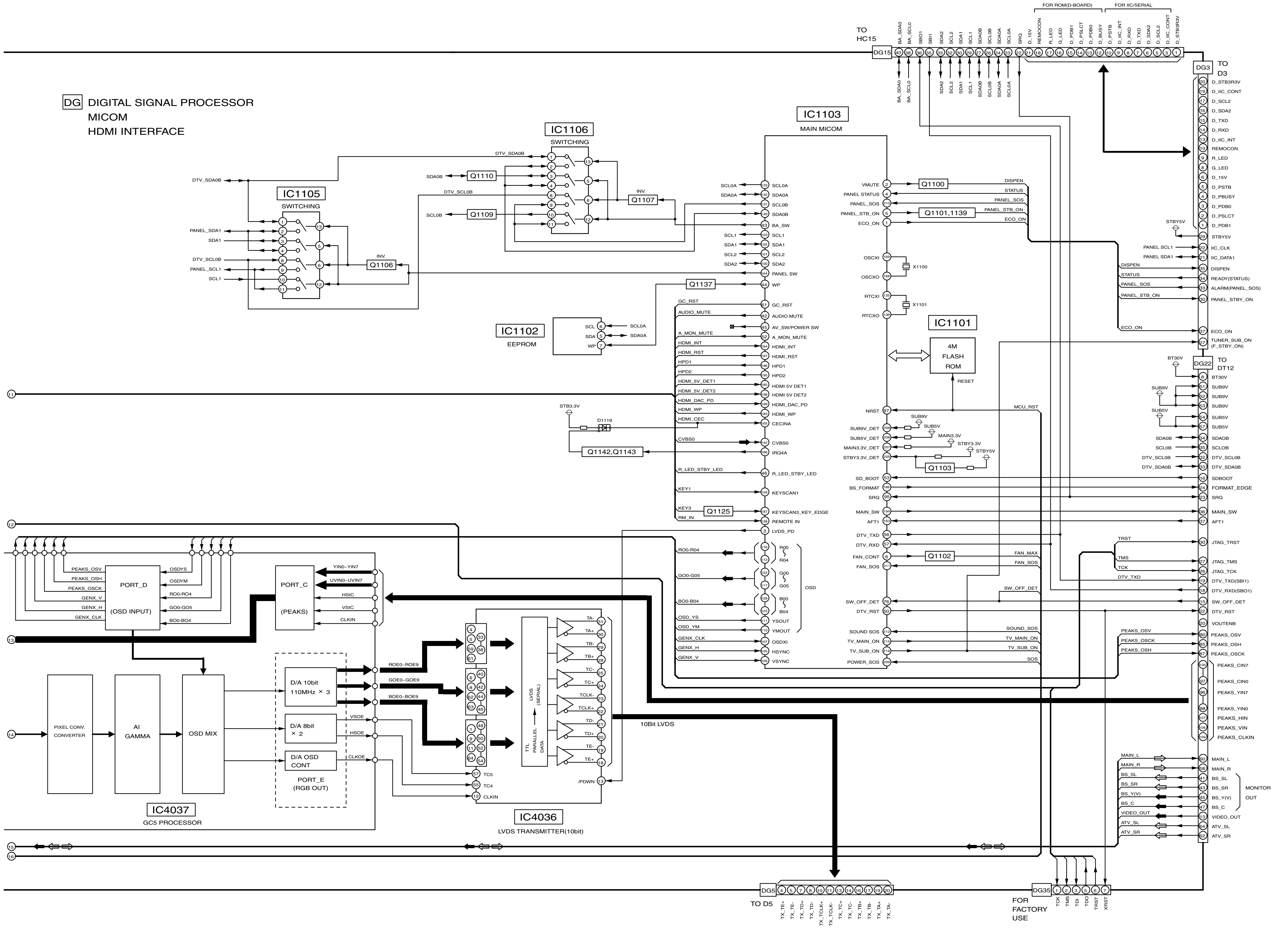
15.18. DG-Board (1 of 3) Block Diagram


DG DIGITAL SIGNAL PROCESSOR
MICOM
HDMI INTERFACE
IC4023
EEPROM
WC
SDA
SCL
DDC_SDA
DDC_SCL
Q4069
HDMI_WP
Q4070
D1 S1
D2 S2
3.3V_SDA
3.3V_SCL
5V 3.3V
HDMI_WP
HDMI_RST
HDMI_INT
IC4026
HDMI I/F RECEIVER
DSCL0
DSDA0
RESET
INT
MUTE OUT
MCLK
SCK
SD0
WS
AUDIO INTERFACE
VIDEO INTERFACE
TMDS DATA RECEIVER AND TMDS DECODER
HDCP CIPHER DECRYPTOR
TMDS DATA RECEIVE AND TMDS DECODER
R0X2+
R0X2-
R0X1+
R0X1-
R0X0+
R0X0-
R0XC+
R0XC-
R1X2+
R1X2-
R1X1+
R1X1-
R1X0+
R1X0-
R1XC+
R1XC-
CPU
IC4027
MAIN 1.8V
MAIN 3.3V
MAIN1.8V
VIN
VOUT
CONT
IC4025
AUDIO DAC
RX_MCLK
H:MUTE
MUTE_OUT
RX_SCK
RX_SD0
RX_WS
MCLK
SMUTE
BICK
SDTI
LRCK
Clock Divider
µ P INTERFACE
AUDIO Data INTERFACE
8X Interpolator
Δ Σ Modulator
AOUTR
AOUTL
PDN
HDMI_DAC_PD
IC4028
AUDIO AMP
MAIN9V
R
L
YB0-YB9
UB0-UB9
(TO GC5 PORT-B)
MAIN 1.8V
MAIN 3.3V
ODCK
HSYNC
VSYNC
DE
XTALIN
CLKINB2
HSIB
VSIB
AP_DE
REFCH_HDMI
DSCL1
DSDA1
R0PWR5V
R1PWR5V
CSCL
CSDA
SDA1
SCL1
D2+
D2G
D2-
D1+
D1G
D1-
D0+
D0G
D0-
CLK+
CLKG
CLK-
CEC
N.C.
SCL
DDC DATA
DDCG
+5V
HPDT
DG9
HDMI IN 1
DG8
HDMI IN 2
Q4071
5V 3.3V
HDMI_CEC
IC4022
EEPROM
Q4084
HPD1
HDMI_5V_DET1
HPD2
HDMI_5V_DET2
MAIN5V
HOTPLUG
Q4066
Q4082
CABLE IN;Hi/NORM
CABLE OUT;LOW/MUTE
Q4067
AUDIO MUTE AND 5V DET
Hi;MUTE
Low;DETECT HPD5V
Q4065
Q4083
Q4068
1
2
3
4

15.19. DG-Board (2 of 3) Block Diagram

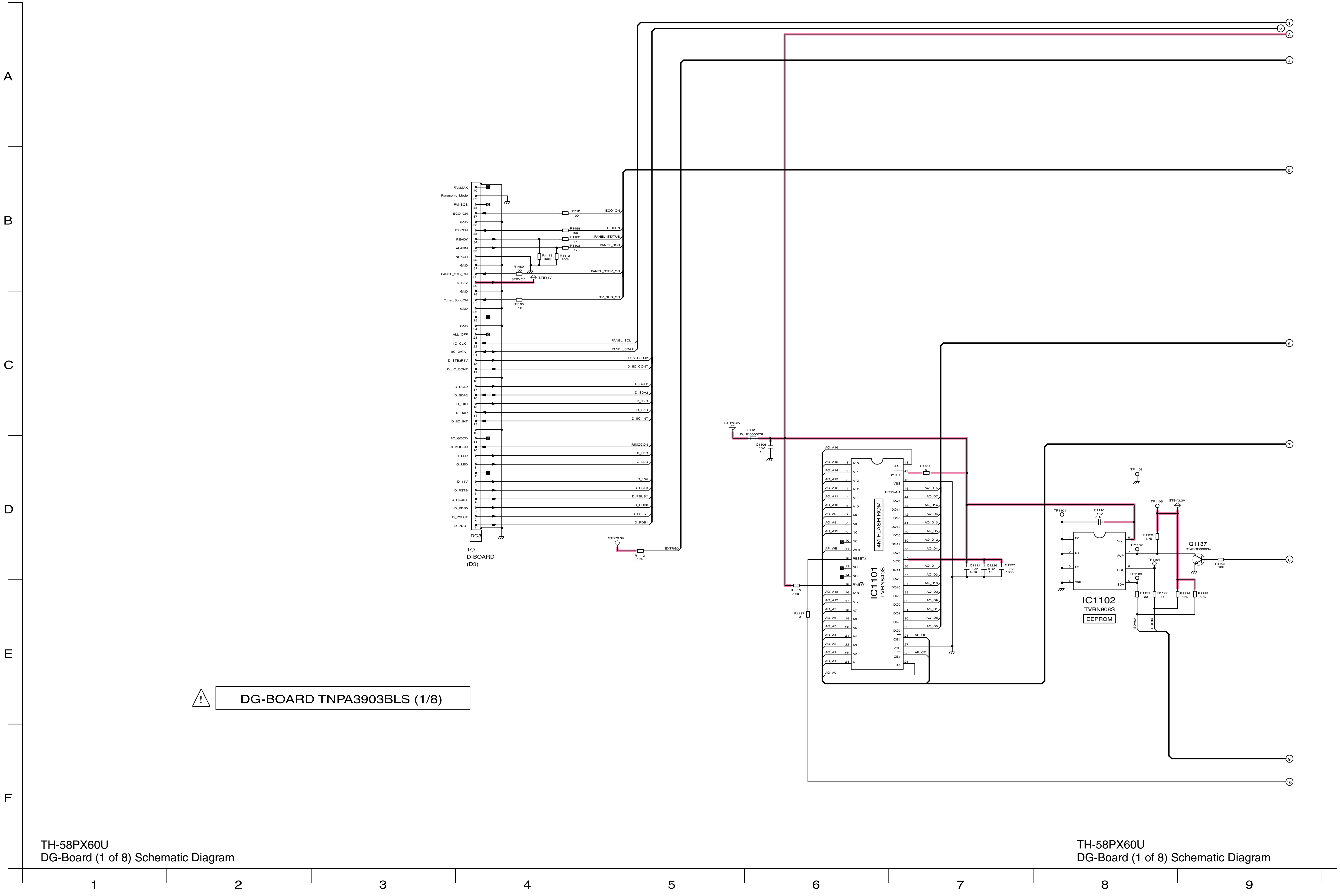

YBIN0-9,UBIN0-9
R
L
DG DIGITAL SIGNAL PROCESSOR
MICOM
HDMI INTERFACE
TO H1
DG1
HDMI_SR
HDMI_SL
MAIN_Y
MAIN_PB
MAIN_PR/B
MAIN_PR
MAIN_L
MAIN_R
BS_SL
BS_SR
(DVB_Y) BS_Y(V)
(DVB_C) BS_C
VIDEO_OUT
ATV_SL
ATV_SR
SL
SR
SOS
AUDIO MUTE
A MON MUTE /MSP.RESET
A MON_MUTE
RST
SCL0B
SDA0B
SUB3.3V
BT30V
STBY3.3V
(STB5V) STBY5V
STBY5V
TO H2
DG2
R_LED_ON
R_LED_STBY_LED
KEY1
KEY3
RM_IN
IC1110
STB 1.5V
STB1.5V
VOUT
VIN
Q1140,Q1141
IC1111
STB 3.3V RESET
STB3.3V
VDOUT
ON/OFF
MCU_RST
STB5V
SUB5V
STB5V (SUB5V BACK UP)
Q1114
Q1116
Q1111
Q1108
PRESS POWER SW 3sec
SW_OFF_DET
D1109
IC1108
RESET
OUT
VDD
IC4013
AD 3.3V
MAIN5V
CONT
SOS
FAN_SOS
FAN_MAX
TV_SUB_ON
TV_MAIN_ON
SOUND_SOS
MAIN9V
SUB9V
MAIN5V
SUB5V
MAIN3.3V
MAIN1.8V
DG20
TO PA20
TUNER SUB_ON
TUNER MAIN_ON
PA_SOS
SOUND SOS
SUB 9V
SUB 5V
MAIN 5V
MAIN 1.8V
CVBS0
GC_RST
MAIN_CVBS
Q1130,Q1134
IC4019
10bit A/D(ADV7499)
RESET
SCL2
SDA2
SCLK
SDA
Q4050,Q4058
Q4057
Q4056
AIN6
AIN5
AIN4
A/D 10bit 110MHz
MATRIX RGB ->YUV
3D/2D com VPK
CHROMA DEM. COLOUR DETECT
SW
Detection Sync
525i/p
625i/p
720p
1080i
Macrovision
SELF,ID,ED2
NOISE LEVEL
SYNC SEPA
CLK
XTAL
DCLK_IN
LLC1
HS
VS
YIN0-YIN9
UVIN0-UVIN9
RIN0-RIN3
NRST
SCL
REFCK_ADV
CLK0A
CLKIA
HSIA
VSIA
IC4016
AVR 1.8V
1.8V
IC4018
IC4029
DLL 2.5V
DLL2.5V
IC4030
PLL 3.3V
MAIN 5V
IC4032
MAIN 1.2V
MAIN1.2V
IC4035
DDR 2.5V
DDR2.5V
IC4038
128M DDR SDRAM
B_DDR_CLK
B_DDR_NCLK
CK
A_DDR_CLK
A_DDR_NCLK
IC4037
GC5 PROCESSOR
PORT-A (ADV7499)
PORT-B (FS&HDMI)
3D Y/C
DIGITAL INPUT I/F
RESIZE MIX NR I/P CONV.
CLKINB2
HSIB
VSIB
AP_DE
REFCH_HDMI
REFCK_HDMI
TDO
TDI
TMS
TCK
TRST
JTAG

15.20. DG-Board (3 of 3) Block Diagram

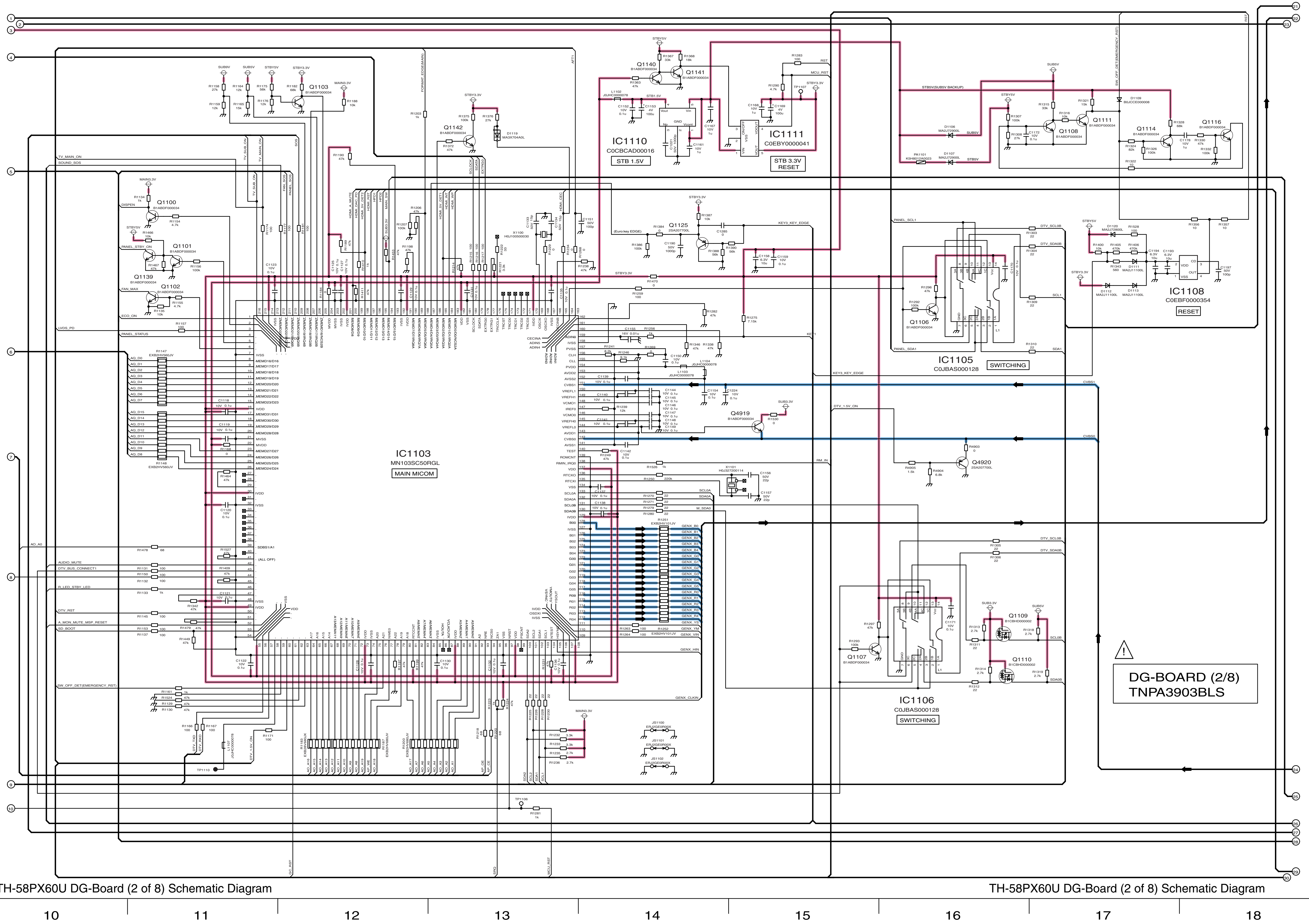

DG DIGITAL SIGNAL PROCESSOR
MICOM
HDMI INTERFACE
IC1106
SWITCHING
IC1105
SWITCHING
IC1103
MAIN MICOM
IC1102
EEPROM
IC1101
4M
FLASH
ROM
RESET
Q1110
Q1109
Q1107
Q1106
Q1137
Q1142,Q1143
Q1125
Q1100
Q1101,1139
Q1103
Q1102
X1100
X1101
D1119
STB3.3V
INV.
PORT_D
(OSD INPUT)
PORT_C
(PEAKS)
PIXEL CONV.
CONVERTER
AI
GAMMA
OSD MIX
D/A 10bit
110MHz × 3
D/A 8bit
× 2
D/A OSD
CONT
PORT_E
(RGB OUT)
IC4037
GC5 PROCESSOR
IC4036
LVDS TRANSMITTER(10bit)
TTL
PARALLEL
DATA
LVDS
(SERIAL)
10Bit LVDS
OSD
TO
HC15
DG15
TO
D3
DG3
FOR ROM(D-BOARD)
FOR IIC/SERIAL
TO
DT12
DG22
DG5
TO D5
DG35
FOR
FACTORY
USE
MONITOR
OUT
11
12
13
14
15
16

TH-58PX60U
DG-Board (3 of 3) Block Diagram

15.21. DG-Board (1 of 8) Schematic Diagram


A
B
C
D
E
F
1
2
3
4
5
6
7
8
9
FANMAX 40
Panasonic_Mode 39
FANSOS 38
ECO_ON 37
GND 36
DISPEN 35
READY 34
ALARM 33
INEXCH 32
GND 31
PANEL_STB_ON 30
STB5V 29
GND 28
Tuner_Sub_ON 27
GND 26
25
GND 24
ALL_OFF 23
IIC_CLK1 22
IIC_DATA1 21
D_STB3R3V 20
D_IIC_CONT 19
18
D_SCL2 17
D_SDA2 16
D_TXD 15
D_RXD 14
D_IIC_INT 13
12
AC_GOOD 11
REMOCON 10
R_LED 9
G_LED 8
7
D_15V 6
D_PSTB 5
D_PBUSY 4
D_PDB0 3
D_PSLCT 2
D_PDB1 1
DG3
TO
D-BOARD
(D3)
R1101 100
ECO_ON
R1458 100
DISPEN
R1102 1k
PANEL_STATUS
R1103 1k
PANEL_SOS
R1413 100k
R1412 100k
R1459 100
STBY5V
STBY5V
PANEL_STBY_ON
R1105 1k
TV_SUB_ON
PANEL_SCL1
PANEL_SDA1
D_STB3R3V
D_IIC_CONT
D_SCL2
D_SDA2
D_TXD
D_RXD
D_IIC_INT
RIMOCON
R_LED
G_LED
D_15V
D_PSTB
D_PBUSY
D_PDB0
D_PSLCT
D_PDB1
STBY3.3V
R1113 3.3k
EXTRG0
STBY3.3V
L1101 J0JHC0000078
C1106 10V 1u
AO_A16
AO_A15 1 A15
AO_A14 2 A14
AO_A13 3 A13
AO_A12 4 A12
AO_A11 5 A11
AO_A10 6 A10
AO_A9 7 A9
AO_A8 8 A8
AO_A19 9 NC
10 NC
AP_WE 11 WE#
12 RESET#
13 NC
14 NC
15 RY/BY#
AO_A18 16 A18
AO_A17 17 A17
AO_A7 18 A7
AO_A6 19 A6
AO_A5 20 A5
AO_A4 21 A4
AO_A3 22 A3
AO_A2 23 A2
AO_A1 24 A1
AO_A0
A16 48
BYTE# 47
VSS 46
DQ15/A-1 45 AQ_D15
DQ7 44 AQ_D7
DQ14 43 AQ_D14
DQ6 42 AQ_D6
DQ13 41 AQ_D13
DQ5 40 AQ_D5
DQ12 39 AQ_D12
DQ4 38 AQ_D4
VCC 37
DQ11 36 AQ_D11
DQ3 35 AQ_D3
DQ10 34 AQ_D10
DQ2 33 AQ_D2
DQ9 32 AQ_D9
DQ1 31 AQ_D1
DQ8 30 AQ_D8
DQ0 29 AQ_D0
OE# 28 AP_OE
VSS 27
CE# 26 AP_CE
A0 25
4M FLASH ROM
IC1101
TVRN840S
R1454 0
R1116 5.6k
R1117 0
C1111 10V 0.1u
C1226 6.3V 10u
C1227 50V 100p
TP1108
TP1101
C1116 10V 0.1u
TP1105
STBY3.3V
R1123 4.7k
1 E0
2 E1
3 E2
4 Vss
Vcc 8
/WP 7
SCL 6
SDA 5
TP1102
TP1104
TP1103
Q1137
B1ABDF000034
R1408 10k
R1121 22
R1122 22
R1124 3.3k
R1125 3.3k
IC1102
TVRN908S
EEPROM
SDA0A
SCL0A
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
DG-BOARD TNPA3903BLS (1/8)
TH-58PX60U
DG-Board (1 of 8) Schematic Diagram
TH-58PX60U
DG-Board (1 of 8) Schematic Diagram

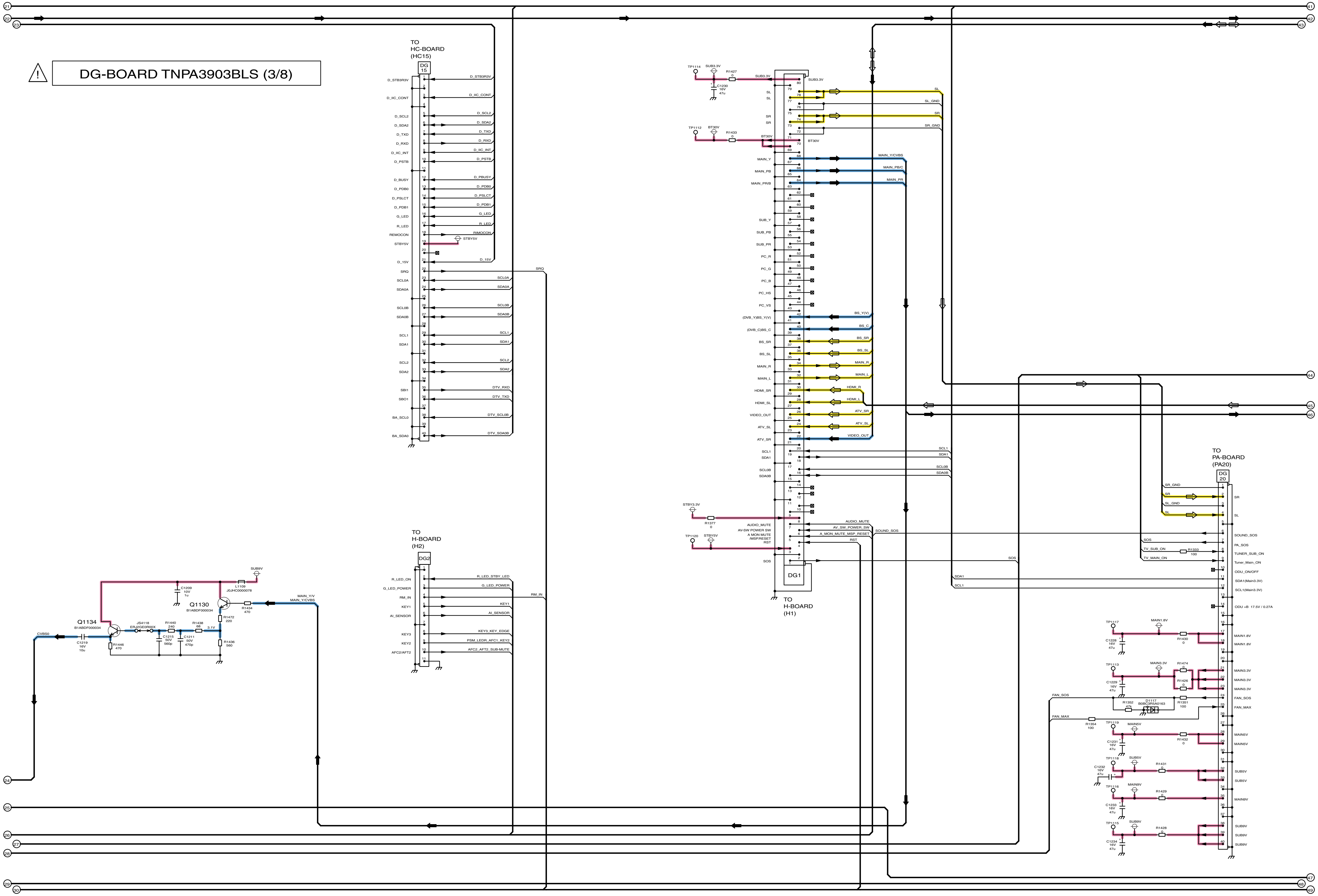
15.22. DG-Board (2 of 8) Schematic Diagram


IC1103
MN103SC50RGL
MAIN MICOM
IC1110
C0CBCAD00016
STB 1.5V
IC1111
C0EBY0000041
STB 3.3V
RESET
IC1105
C0JBAS000128
SWITCHING
IC1106
C0JBAS000128
SWITCHING
IC1108
C0EBF0000354
RESET
DG-BOARD (2/8)
TNPA3903BLS
10
11
12
13
14
15
16
17
18

TH-58PX60U DG-Board (2 of 8) Schematic Diagram

TH-58PX60U DG-Board (2 of 8) Schematic Diagram

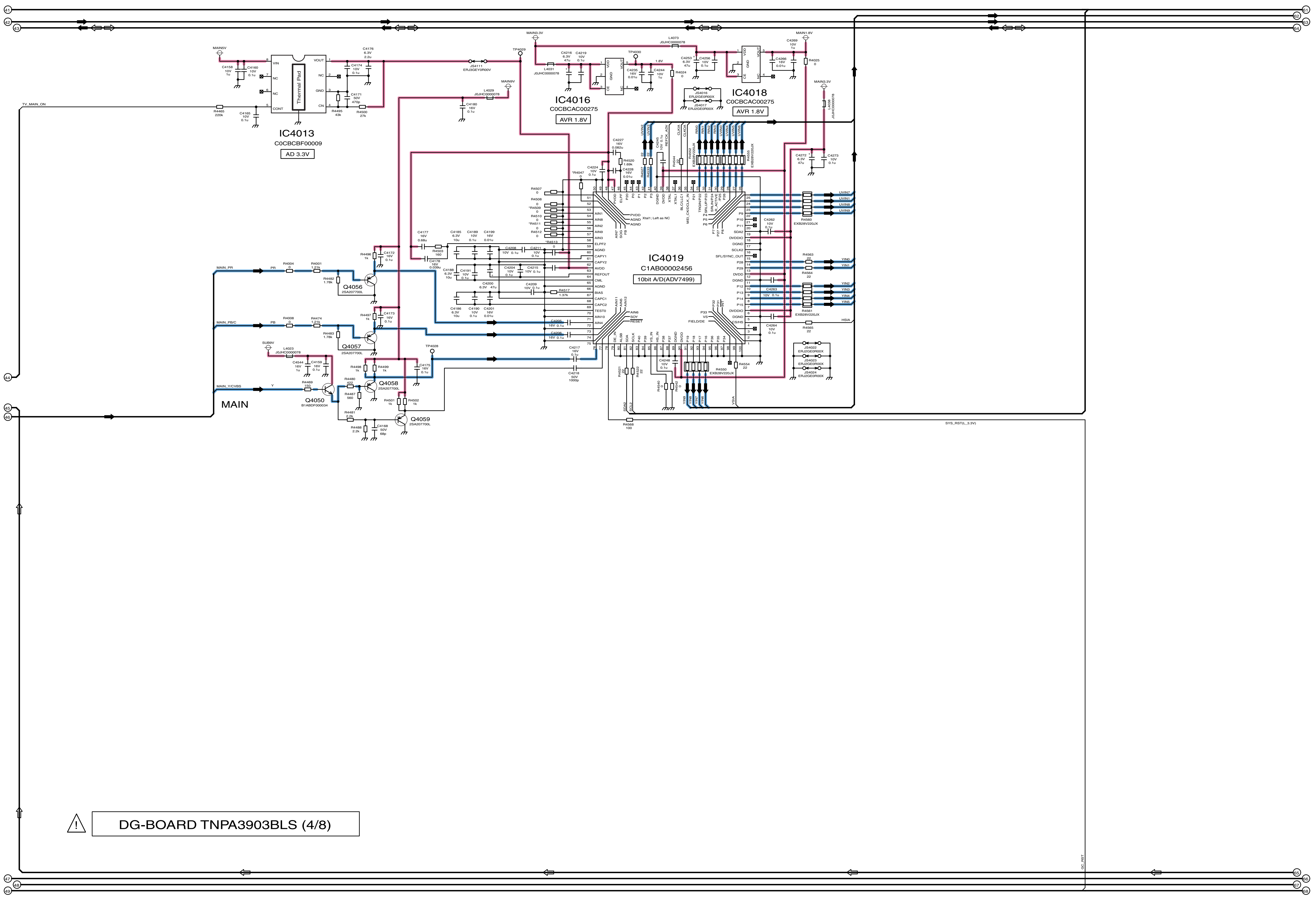
15.23. DG-Board (3 of 8) Schematic Diagram


DG-BOARD TNPA3903BLS (3/8)
TO
HC-BOARD
(HC15)
DG
15
TO
H-BOARD
(H2)
DG2
DG1
TO
H-BOARD
(H1)
TO
PA-BOARD
(PA20)
DG
20
Q1134
B1ABDF000034
Q1130
B1ABDF000034
CVBS0
MAIN_Y/V
MAIN_Y/CVBS
SUB9V
L1109
J0JHC0000078

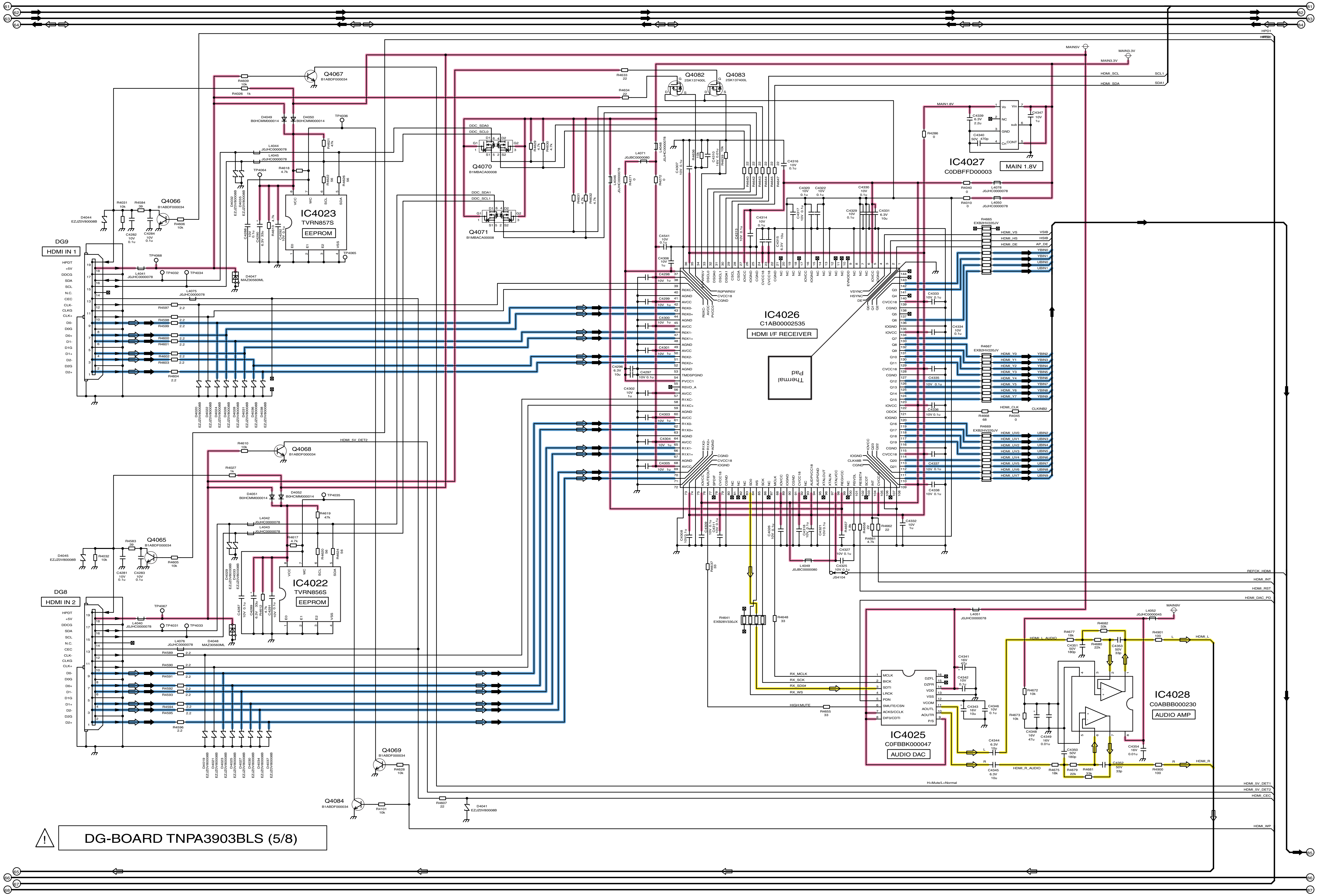
TH-58PX60U DG-Board (3 of 8) Schematic Diagram

TH-58PX60U DG-Board (3 of 8) Schematic Diagram

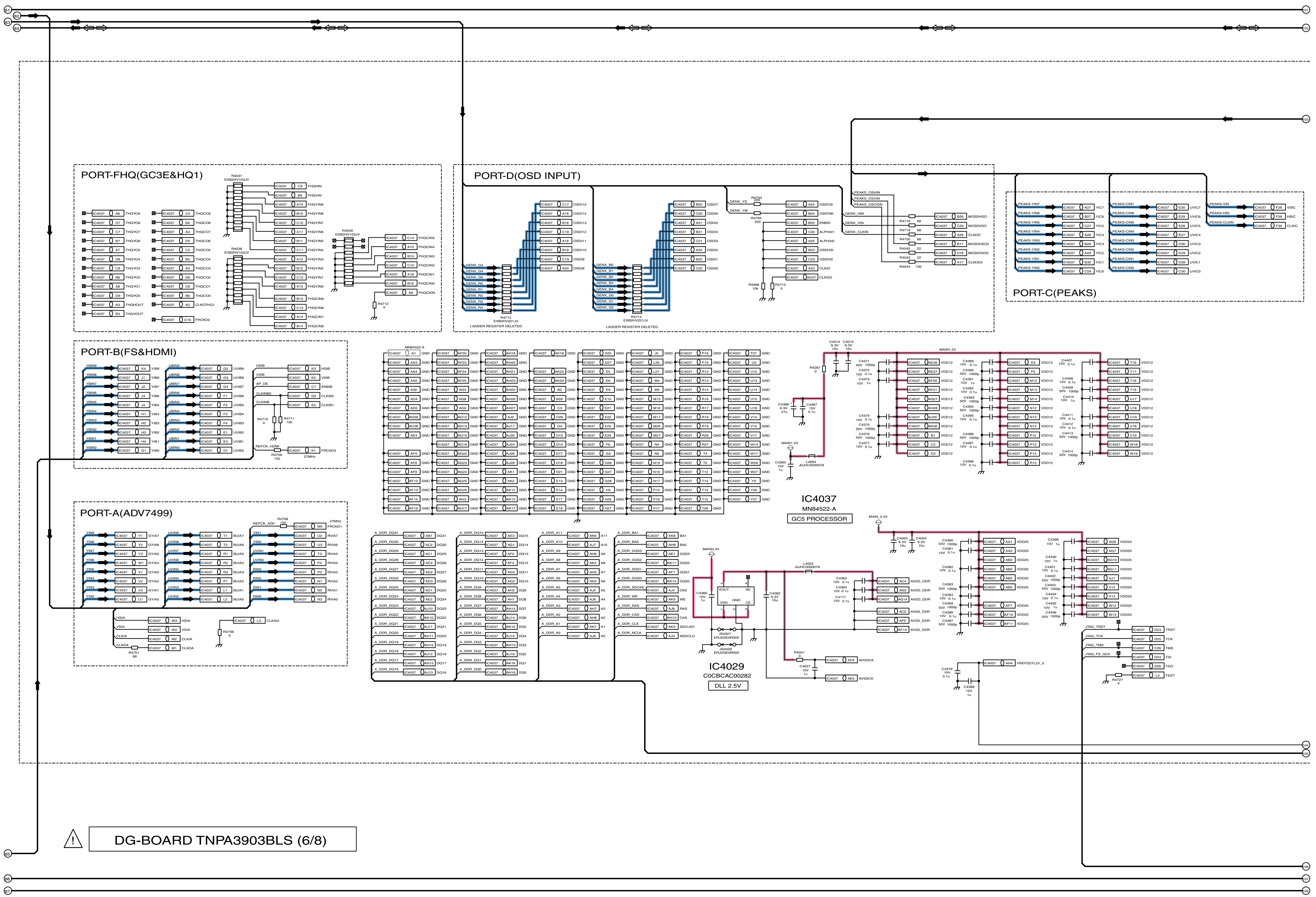
15.24. DG-Board (4 of 8) Schematic Diagram


DG-BOARD TNPA3903BLS (4/8)
MAIN
TV_MAIN_ON
MAIN5V
MAIN3.3V
MAIN9V
MAIN1.8V
SUB9V
IC4013
C0CBCBF00009
AD 3.3V
Thermal Pad
VIN
VOUT
NC
GND
CN
CONT
IC4016
C0CBCAC00275
AVR 1.8V
IC4018
C0CBCAC00275
AVR 1.8V
VDD
VOUT
GND
CE
1.8V
IC4019
C1AB00002456
10bit A/D(ADV7499)
Xtal1; Left as NC
Q4056
2SA207700L
Q4057
2SA207700L
Q4058
2SA207700L
Q4059
2SA207700L
Q4050
B1ABDF000034
MAIN_PR
PR
MAIN_PB/C
PB
MAIN_Y/CVBS
Y
TP4028
TP4029
TP4030
JS4111
ERJ3GEY0R00V
JS4016
JS4017
JS4022
JS4023
JS4024
ERJ2GE0R00X
L4029
L4031
L4073
L4023
L4038
J0JHC0000078
R4552
R4555
R4560
R4561
R4550
EXB28V220JX
UVIN2
UVIN3
REFCK_ADV
CLKIA
CLKOA
RIN0
RIN1
RIN2
RIN3
UVIN0
UVIN4
UVIN5
UVIN6
UVIN7
UVIN1
UVIN8
UVIN9
YIN0
YIN1
YIN2
YIN3
YIN4
YIN5
YIN6
YIN7
YIN8
YIN9
HSIA
VSIA
SDA2
SCL2
SYS_RST(L_3.3V)
DC_RST

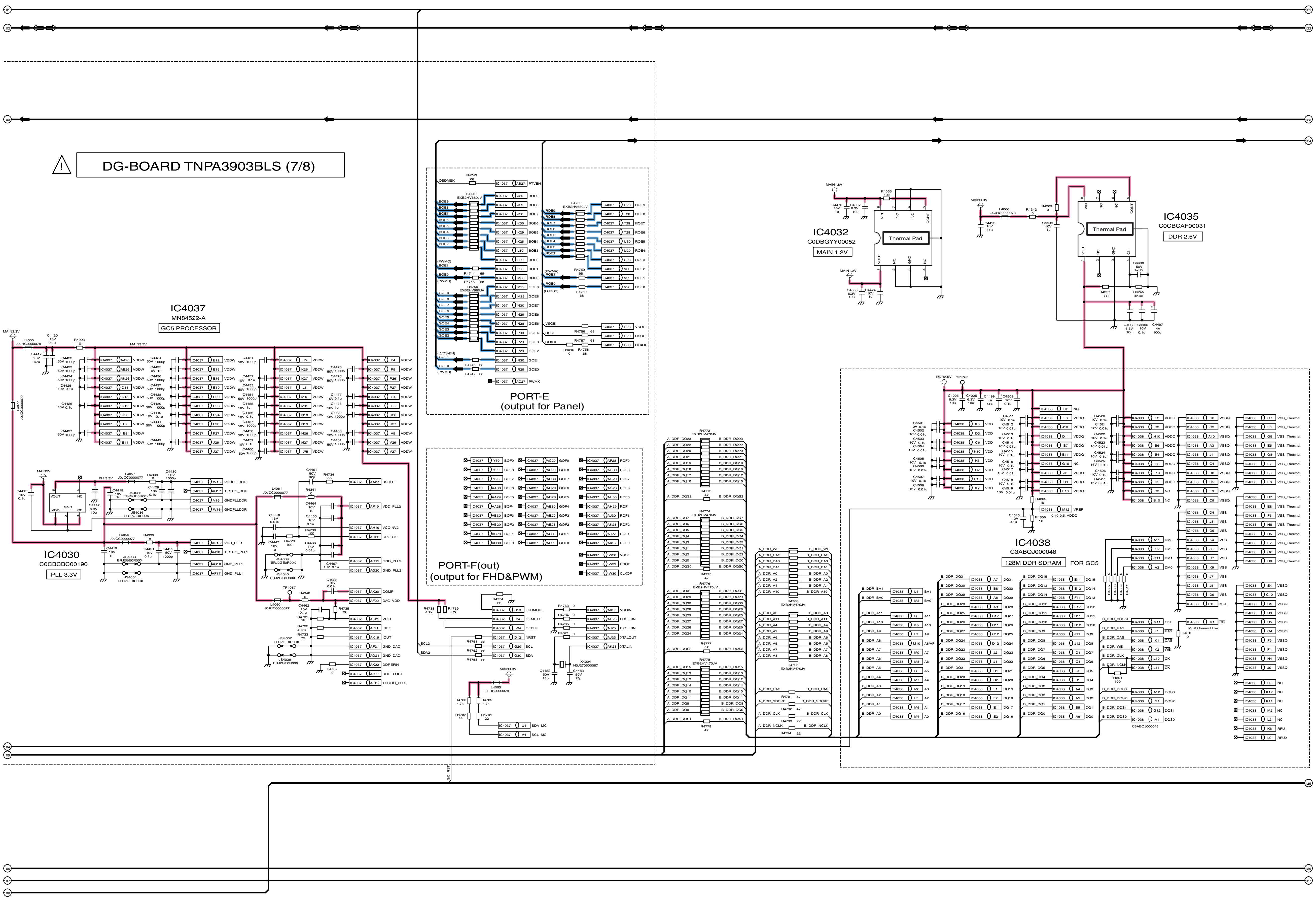
15.25. DG-Board (5 of 8) Schematic Diagram


DG9
HDMI IN 1
DG8
HDMI IN 2
Q4067
Q4066
Q4068
Q4065
Q4069
Q4084
Q4070
Q4071
Q4082
Q4083
IC4023
TVRN857S
EEPROM
IC4022
TVRN856S
EEPROM
IC4026
C1AB00002535
HDMI I/F RECEIVER
Thermal Pad
IC4027
C0DBFFD00003
MAIN 1.8V
IC4025
C0FBBK000047
AUDIO DAC
IC4028
C0ABBB000230
AUDIO AMP
MAIN5V
MAIN3.3V
MAIN1.8V
MAIN9V
HDMI_SCL
HDMI_SDA
HDMI_5V_DET2
REFCK_HDMI
HDMI_INT
HDMI_RST
HDMI_DAC_PD
HDMI_5V_DET1
HDMI_CEC
HDMI_WP
HDMI_L
HDMI_R
H=Mute/L=Normal
DG-BOARD TNPA3903BLS (5/8)

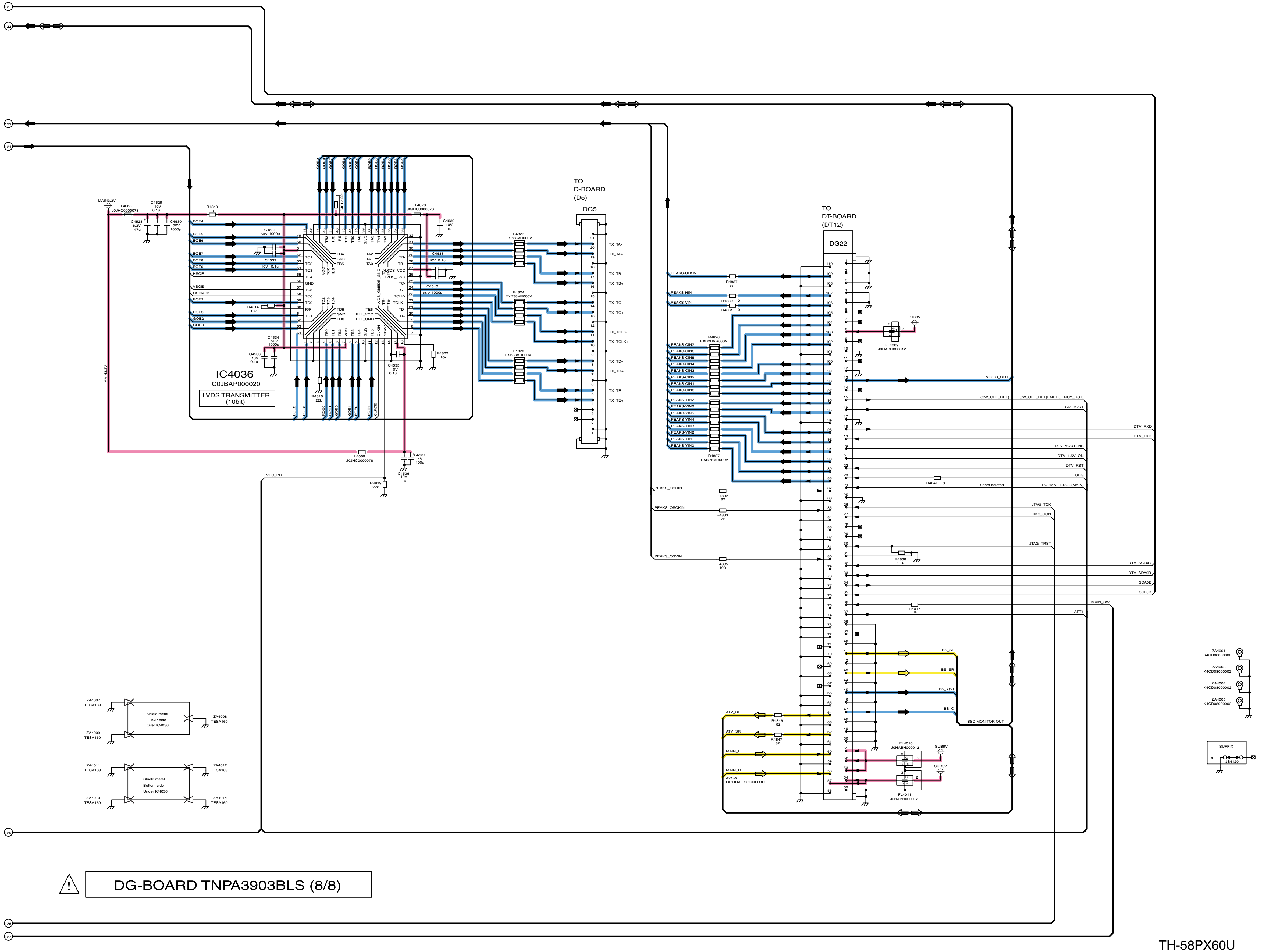
15.26. DG-Board (6 of 8) Schematic Diagram


PORT-FHQ(GC3E&HQ1)
PORT-D(OSD INPUT)
PORT-C(PEAKS)
PORT-B(FS&HDMI)
PORT-A(ADV7499)
IC4037
MN84522-A
GC5 PROCESSOR
IC4029
C0CBCAC00282
DLL 2.5V
DG-BOARD TNPA3903BLS (6/8)

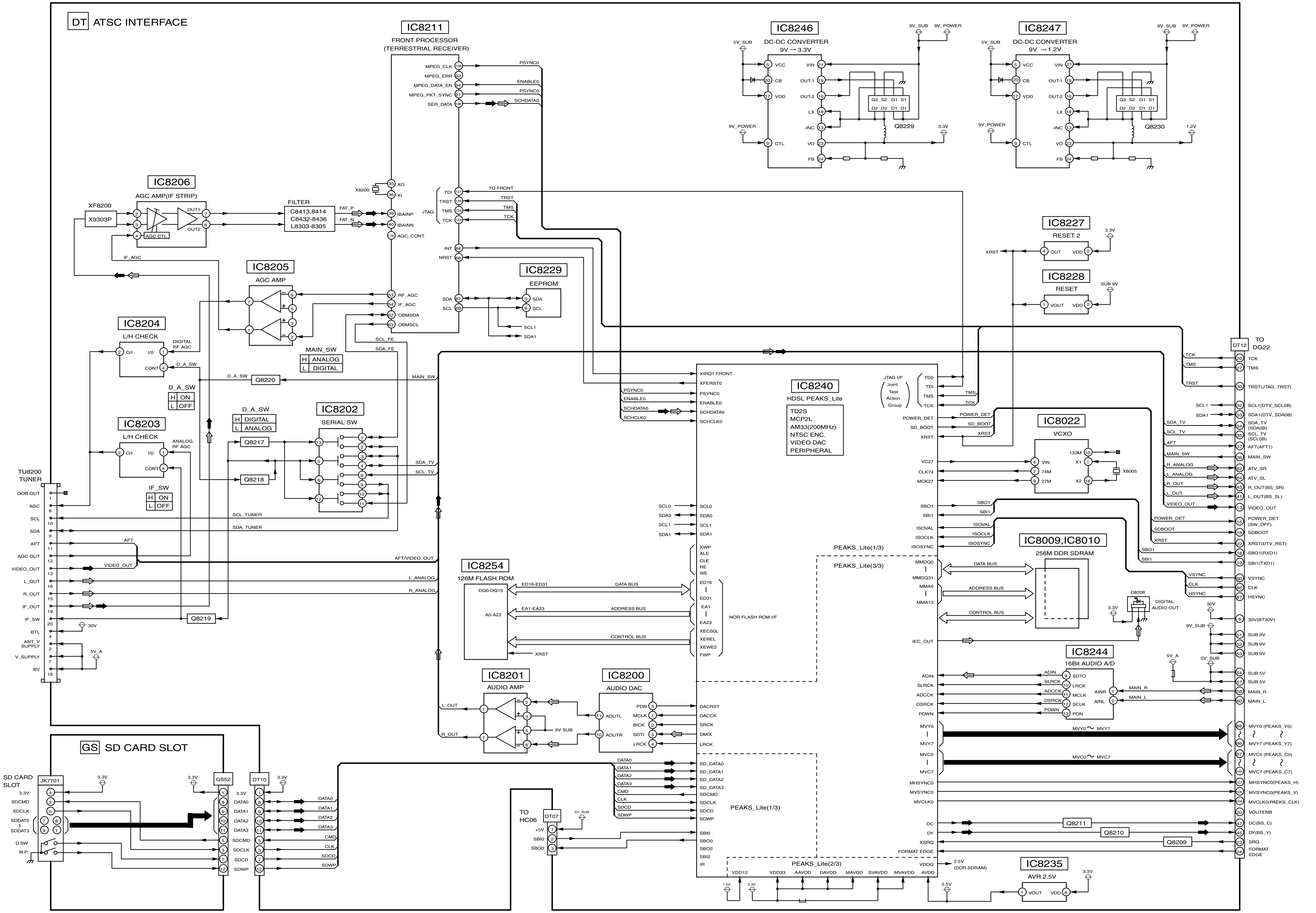
15.27. DG-Board (7 of 8) Schematic Diagram


DG-BOARD TNPA3903BLS (7/8)
IC4037
MN84522-A
GC5 PROCESSOR
IC4030
C0CBCBC00190
PLL 3.3V
PORT-E
(output for Panel)
PORT-F(out)
(output for FHD&PWM)
IC4032
C0DBGYY00052
MAIN 1.2V
Thermal Pad
IC4035
C0CBCAF00031
DDR 2.5V
Thermal Pad
IC4038
C3ABQJ000048
128M DDR SDRAM
FOR GC5
MAIN3.3V
MAIN5V
MAIN1.8V
MAIN1.2V
DDR2.5V

15.28. DG-Board (8 of 8) Schematic Diagram


IC4036
C0JBAP000020
LVDS TRANSMITTER
(10bit)
TO
D-BOARD
(D5)
DG5
TO
DT-BOARD
(DT12)
DG22
MAIN3.3V
L4068
L4069
L4070
R4823
R4824
R4825
R4826
R4827
TX_TA-
TX_TA+
TX_TB-
TX_TB+
TX_TC-
TX_TC+
TX_TCLK-
TX_TCLK+
TX_TD-
TX_TD+
TX_TE-
TX_TE+
PEAKS-CLKIN
PEAKS-HIN
PEAKS-VIN
PEAKS_OSHIN
PEAKS_OSCKIN
PEAKS_OSVIN
LVDS_PD
VIDEO_OUT
SW_OFF_DET(EMERGENCY_RST)
SD_BOOT
DTV_RXD
DTV_TXD
DTV_VOUTENB
DTV_1.5V_ON
DTV_RST
SIRQ
FORMAT_EDGE(MAIN)
JTAG_TCK
TMS_CON
JTAG_TRST
DTV_SCL0B
DTV_SDA0B
SDA0B
SCL0B
MAIN_SW
AFT1
BS_SL
BS_SR
BS_Y(V)
BS_C
BSD MONITOR OUT
ATV_SL
ATV_SR
MAIN_L
MAIN_R
AVSW
OPTICAL SOUND OUT
FL4009
FL4010
FL4011
SUB9V
SUB5V
BT30V
Shield metal
TOP side
Over IC4036
Shield metal
Bottom side
Under IC4036
ZA4007
ZA4008
ZA4009
ZA4011
ZA4012
ZA4013
ZA4014
ZA4001
ZA4003
ZA4004
ZA4005
SUFFIX
DG-BOARD TNPA3903BLS (8/8)

15.29. DT and GS-Board Block Diagram

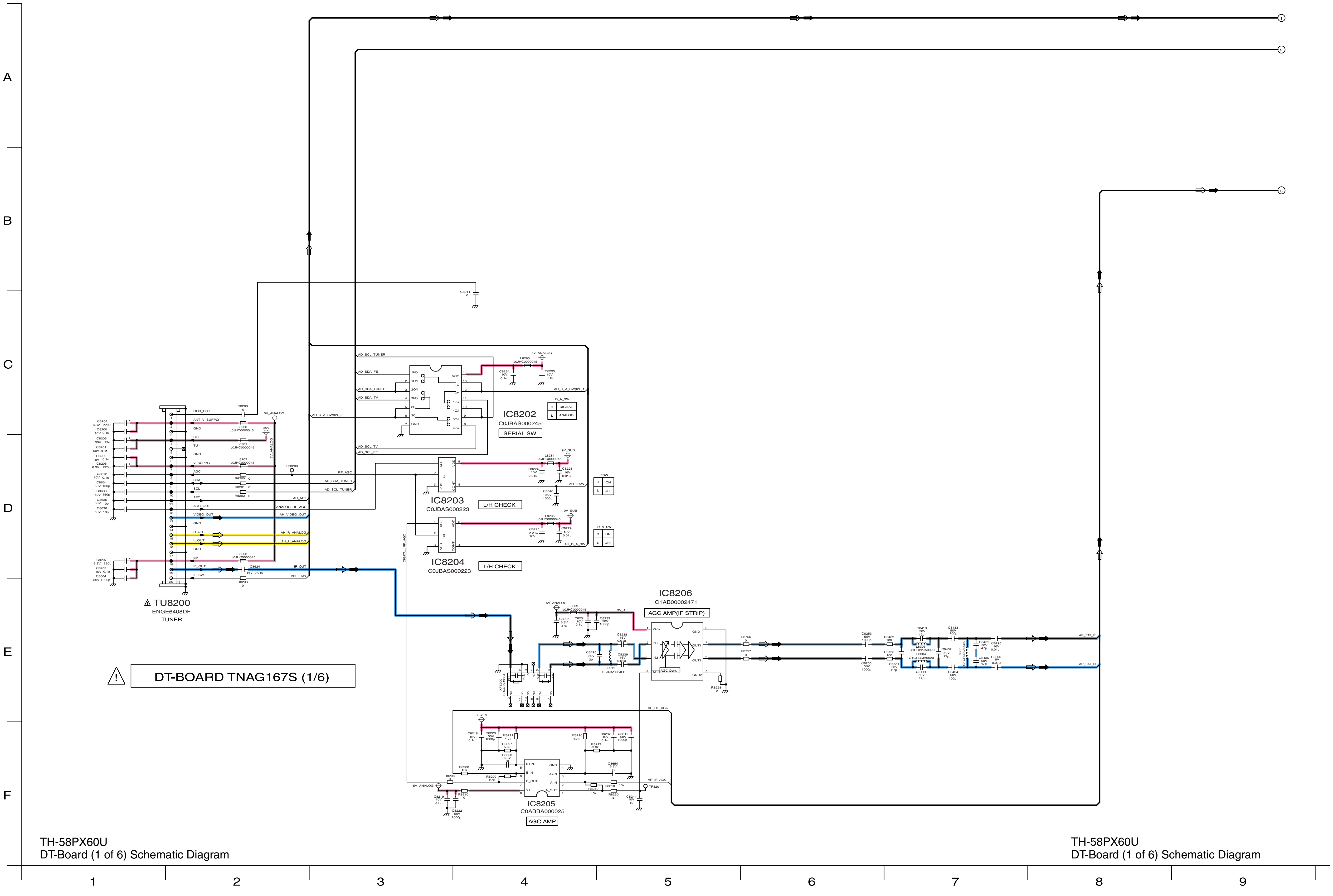


DT ATSC INTERFACE
IC8211
FRONT PROCESSOR (TERRESTRIAL RECEIVER)
MPEG_CLK
MPEG_ERR
MPEG_DATA_EN
MPEG_PKT_SYNC
SER_DATA
PSYNC0
ENABLE0
SCHDATA0
X8200
XO
XI
IBAINP
IBAINN
AGC_CONT
FAT_P
FAT_N
JTAG
TDI
TRST
TMS
TCK
TO FRONT
INT
NRST
RF_AGC
IF_AGC
OBMSDA
OBMSCL
SDA
SCL
SCL_FE
SDA_FE
IC8206
AGC AMP(IF STRIP)
XF8200
X9303P
OUT1
OUT2
AGC CTL
IF_AGC
FILTER
C8413,8414
C8432-8436
L8303-8305
IC8205
AGC AMP
IC8229
EEPROM
SCL1
SDA1
IC8204
L/H CHECK
DIGITAL RF AGC
O/I
I/0
CONT
D_A_SW
Q8220
MAIN_SW
H ANALOG
L DIGITAL
D_A_SW
H ON
L OFF
IC8203
L/H CHECK
ANALOG RF AGC
D_A_SW
H DIGITAL
L ANALOG
Q8217
Q8218
IC8202
SERIAL SW
SDA_TV
SCL_TV
IF_SW
H ON
L OFF
SCL_TUNER
SDA_TUNER
TU8200 TUNER
OOB OUT
AGC
SCL
SDA
AFT
AGC OUT
VIDEO_OUT
L_OUT
R_OUT
IF_OUT
IF_SW
BTL
ANT_V SUPPLY
V_SUPPLY
BV
30V
5V_A
Q8219
AFT/VIDEO_OUT
L_ANALOG
R_ANALOG
IC8254
128M FLASH ROM
DQ0-DQ15
A0-A22
ED16-ED31
DATA BUS
EA1-EA23
ADDRESS BUS
CONTROL BUS
XRST
IC8201
AUDIO AMP
L_OUT
R_OUT
9V SUB
IC8200
AUDIO DAC
AOUTL
AOUTR
PDN
MCLK
BICK
SDTI
LRCK
IC8246
DC-DC CONVERTER
9V → 3.3V
5V_SUB
9V_SUB
9V_POWER
VCC
CB
VDD
CTL
VIN
OUT-1
OUT-2
LX
-INC
VO
FB
G2 S2 G1 S1
D2 D2 D1 D1
Q8229
3.3V
IC8247
DC-DC CONVERTER
9V → 1.2V
Q8230
1.2V
IC8227
RESET 2
XRST
OUT
VDD
IC8228
RESET
SUB 9V
VOUT
IC8240
HDSL PEAKS_Lite
TD2S
MCP2L
AM33(200MHz)
NTSC ENC.
VIDEO DAC
PERIPHERAL
XIRQ1 FRONT
XFERST0
PSYNC0
ENABLE0
SCHDATA0
SCHCLK0
JTAG I/F (Joint Test Action Group)
TD0
TDI
TMS
TCK
POWER_DET
SD_BOOT
XRST
VC27
CLK74
MCK27
SCL0
SDA0
SCL1
SDA1
SBO1
SBI1
ISOVAL
ISOCLK
ISOSYNC
PEAKS_Lite(1/3)
PEAKS_Lite(3/3)
XWP
ALE
CLE
RE
WE
ED16
ED31
EA1
EA23
XECS0L
XEREL
XEWE2
FWP
NOR FLASH ROM I/F
MMDQ0
MMDQ31
MMA0
MMA13
IEC_OUT
ADIN
SLRCK
ADCCK
DSRCK
PDWN
DACRST
DACCK
SRCK
DMIX
LRCK
SD_DATA0
SD_DATA1
SD_DATA2
SD_DATA3
SDCMD
SDCLK
SDCD
SDWP
SBI0
SBO0
SBO2
SBI2
IR
PEAKS_Lite(1/3)
MVY0
MVY7
MVC0
MVC7
MHSYNC0
MVSYNC0
MVCLK0
DC
DY
XSRQ
FORMAT EDGE
VDDO
2.5V (DDR SDRAM)
PEAKS_Lite(2/3)
VDD12
VDD33
AAVDD
DAVDD
MAVDD
SVAVDD
MVAVDD
AVDD
IC8022
VCXO
133M
VIN
X1
X2
74M
27M
X8005
IC8009,IC8010
256M DDR SDRAM
DATA BUS
ADDRESS BUS
CONTROL BUS
D8208
DIGITAL AUDIO OUT
IC8244
16Bit AUDIO A/D
SDTO
LRCK
MCLK
SCLK
PDN
AINR
AINL
MAIN_R
MAIN_L
MVY0 ~ MVY7
MVC0 ~ MVC7
Q8211
Q8210
Q8209
IC8235
AVR 2.5V
VOUT
VDD
TO DG22
DT12
TCK
TMS
TRST(JTAG_TRST)
SCL1(DTV_SCL0B)
SDA1(DTV_SDA0B)
SDA_TV (SDA0B)
SCL_TV (SCL0B)
AFT(AFT1)
MAIN_SW
ATV_SR
ATV_SL
R_OUT(BS_SR)
L_OUT(BS_SL)
VIDEO_OUT
POWER_DET (SW_OFF)
SDBOOT
XRST(DTV_RST)
SBO1(RXD1)
SBI1(TXD1)
VSYNC
CLK
HSYNC
30V(BT30V)
SUB 9V
SUB 5V
MAIN_R
MAIN_L
MVY0 (PEAKS_Y0)
MVY7 (PEAKS_Y7)
MVC0 (PEAKS_C0)
MVC7 (PEAKS_C7)
MHSYNC0(PEAKS_H)
MVSYNC0(PEAKS_V)
MVCLK0(PEAKS_CLK)
VOUTENB
DC(BS_C)
DY(BS_Y)
SRQ
FORMAT EDGE
TO HC06
DT07
+5V
SBI0
SBO0
GS SD CARD SLOT
SD CARD SLOT
JK7701
3.3V
SDCMD
SDCLK
SDDAT0 ~ SDDAT3
D.SW
W.P.
GS52
DT10
DATA0
DATA1
DATA2
DATA3
SDCMD
SDCLK
SDCD
SDWP
CMD
CLK

TH-58PX60U
DT and GS-Board Block Diagram

TH-58PX60U
DT and GS-Board Block Diagram

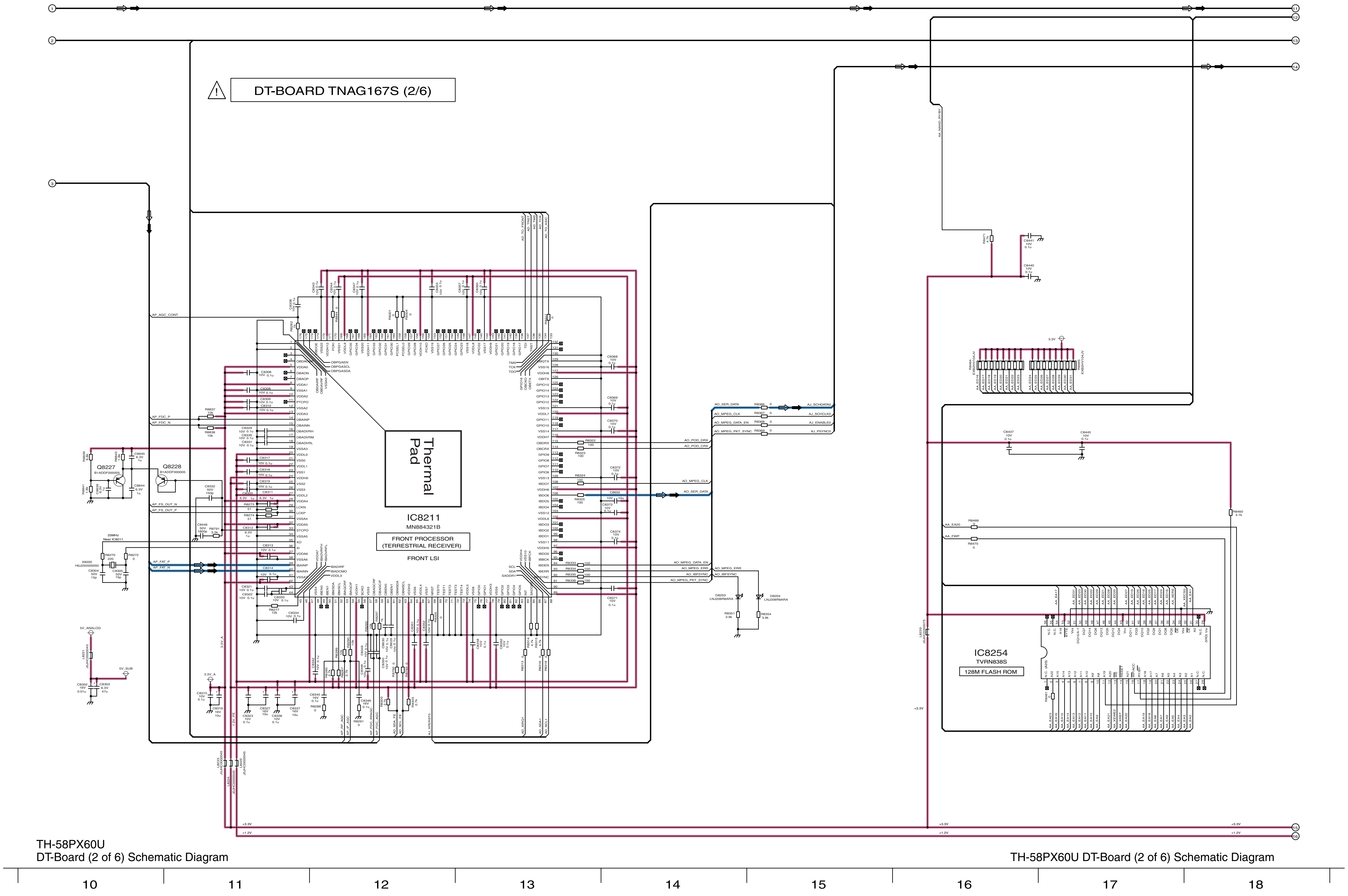
15.30. DT-Board (1 of 6) Schematic Diagram


A
B
C
D
E
F
1
2
3
4
5
6
7
8
9
TU8200
ENGE6408DF
TUNER
DT-BOARD TNAG167S (1/6)
IC8202
C0JBAS000245
SERIAL SW
IC8203
C0JBAS000223
L/H CHECK
IC8204
C0JBAS000223
L/H CHECK
IC8206
C1AB00002471
AGC AMP(IF STRIP)
IC8205
C0ABBA000025
AGC AMP
AP_FAT_P
AP_FAT_N
AP_RF_AGC
AP_IF_AGC
5V_ANALOG
9V_SUB
3.3V_A
TP8200
TP8201

TH-58PX60U
DT-Board (1 of 6) Schematic Diagram

TH-58PX60U
DT-Board (1 of 6) Schematic Diagram

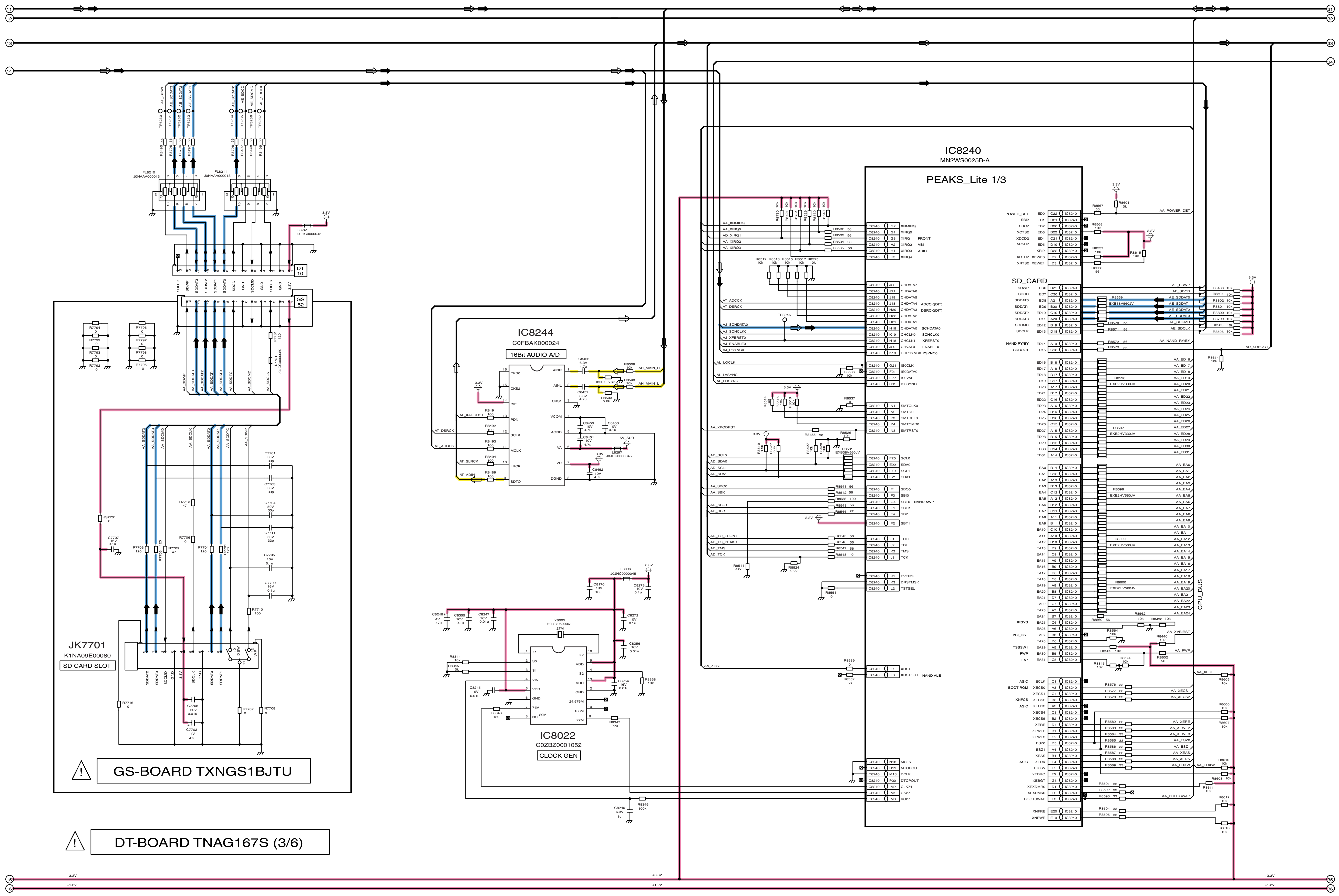
15.31. DT-Board (2 of 6) Schematic Diagram


DT-BOARD TNAG167S (2/6)
Thermal Pad
IC8211
MN884321B
FRONT PROCESSOR
(TERRESTRIAL RECEIVER)
FRONT LSI
Q8227
B1ADDF000005
Q8228
B1ADDF000005
25MHz
Near IC8211
X8200
IC8254
TVRN838S
128M FLASH ROM
AP_AGC_CONT
AP_FDC_P
AP_FDC_N
AP_FS_OUT_N
AP_FS_OUT_P
AP_FAT_P
AP_FAT_N
AO_SER_DATA
AO_MPEG_CLK
AO_MPEG_DATA_EN
AO_MPEG_PKT_SYNC
AJ_SCHDATA0
AJ_SCHCLK0
AJ_ENABLE0
AJ_PSYNC0
AO_POD_DRX
AO_POD_CRX
AO_MPEG_ERR
AO_IBFSYNC
AA_NAND_RY/BY
AA_EA20
AA_FWP
5V_ANALOG
5V_SUB
3.3V_A
+3.3V
+1.2V
10
11
12
13
14
15
16
17
18

TH-58PX60U
DT-Board (2 of 6) Schematic Diagram

TH-58PX60U DT-Board (2 of 6) Schematic Diagram

15.32. DT-Board (3 of 6) and GS-Board Schematic Diagram

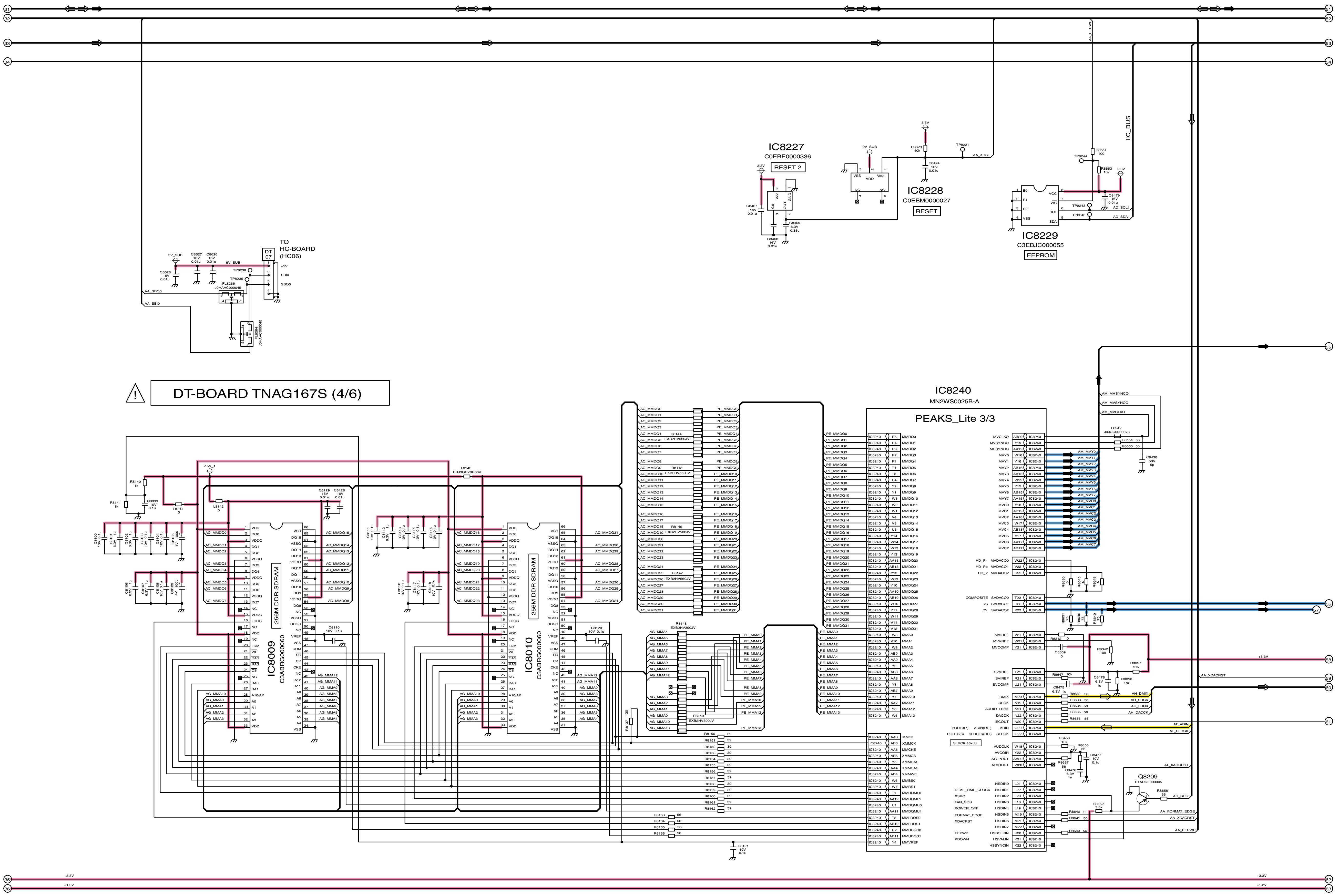

IC8240
MN2WS0025B-A
PEAKS_Lite 1/3
SD_CARD
CPU_BUS
IC8244
C0FBAK000024
16Bit AUDIO A/D
IC8022
C0ZBZ0001052
CLOCK GEN
X8005
H0J270500061
27M
JK7701
K1NA09E00080
SD CARD SLOT
GS
52
DT
10
GS-BOARD TXNGS1BJTU
DT-BOARD TNAG167S (3/6)
+3.3V
+1.2V

TH-58PX60U DT-Board (3 of 6) and GS-Board Schematic Diagram

TH-58PX60U DT-Board (3 of 6) and GS-Board Schematic Diagram

19 20 21 22 23 24 25 26 27

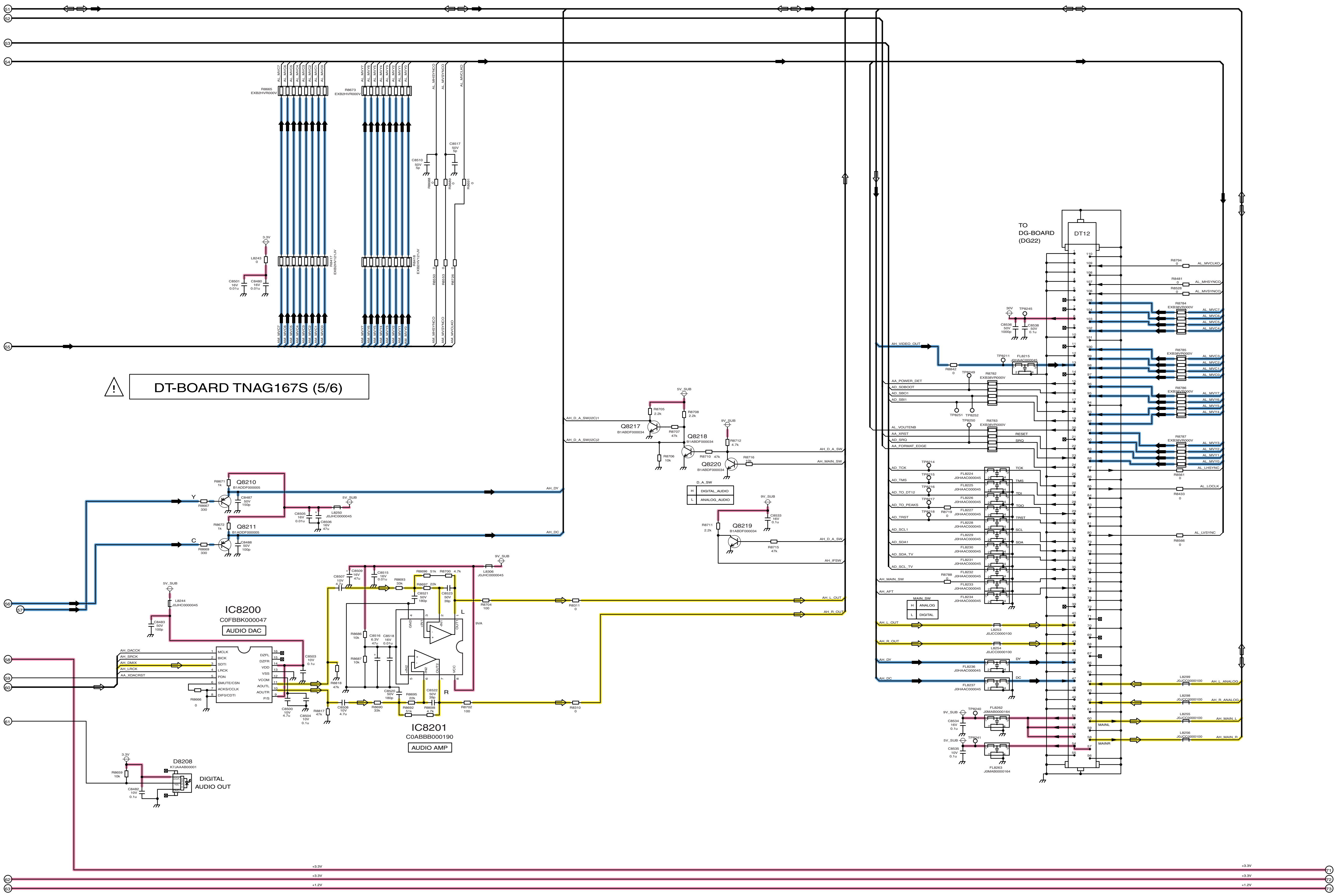
15.33. DT-Board (4 of 6) Schematic Diagram


IC8227
C0EBE0000336
RESET 2
IC8228
C0EBM0000027
RESET
IC8229
C3EBJC000055
EEPROM
IIC_BUS
TO
HC-BOARD
(HC06)
DT
07
DT-BOARD TNAG167S (4/6)
IC8240
MN2WS0025B-A
PEAKS_Lite 3/3
IC8009
C3ABRG000060
256M DDR SDRAM
IC8010
C3ABRG000060
256M DDR SDRAM
Q8209
B1ADDF000005

TH-58PX60U DT-Board (4 of 6) Schematic Diagram TH-58PX60U DT-Board (4 of 6) Schematic Diagram

28 29 30 31 32 33 34 35 36

15.34. DT-Board (5 of 6) Schematic Diagram

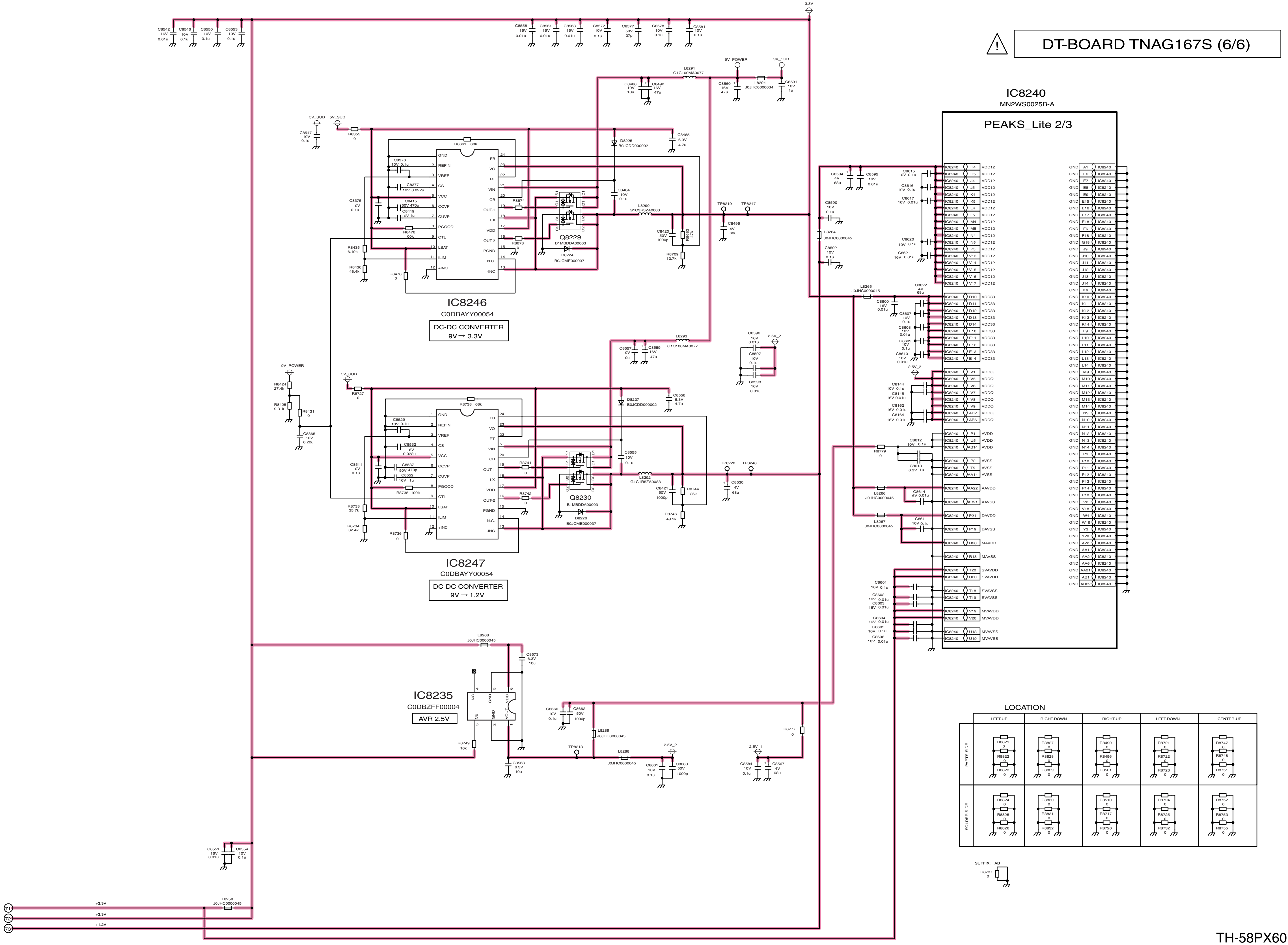

DT-BOARD TNAG167S (5/6)
TO
DG-BOARD
(DG22)
DT12
IC8200
C0FBBK000047
AUDIO DAC
IC8201
C0ABBB000190
AUDIO AMP
D8208
K7JAAA000001
DIGITAL
AUDIO OUT
Q8210
Q8211
Q8217
Q8218
Q8219
Q8220
D_A_SW
H DIGITAL_AUDIO
L ANALOG_AUDIO
MAIN_SW
H ANALOG
L DIGITAL
Y
C
L
R
+3.3V
+3.3V
+1.2V

TH-58PX60U DT-Board (5 of 6) and GS-Board Schematic Diagram

TH-58PX60U DT-Board (5 of 6) and GS-Board Schematic Diagram

37	38	39	40	41	42	43	44	45

15.35. DT-Board (6 of 6) Schematic Diagram

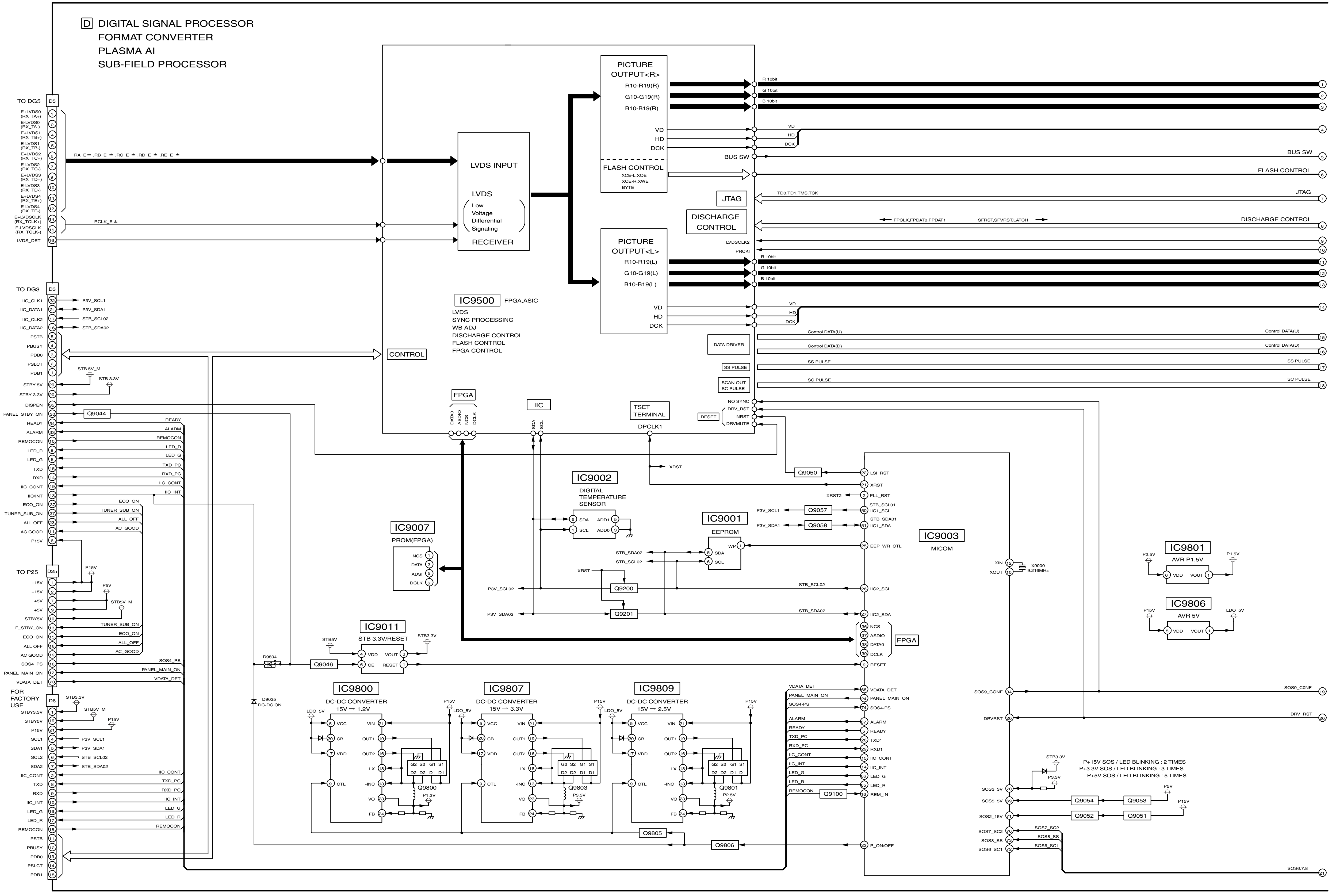

DT-BOARD TNAG167S (6/6)
IC8240
MN2WS0025B-A
PEAKS_Lite 2/3
IC8246
C0DBAYY00054
DC-DC CONVERTER
9V → 3.3V
IC8247
C0DBAYY00054
DC-DC CONVERTER
9V → 1.2V
IC8235
C0DBZFF00004
AVR 2.5V
Q8229
B1MBDDA00003
Q8230
B1MBDDA00003
3.3V
9V_POWER
9V_SUB
5V_SUB
2.5V_2
2.5V_1
+3.3V
+1.2V
VDD12
VDD33
VDDQ
AVDD
AVSS
AAVDD
AAVSS
DAVDD
DAVSS
MAVDD
MAVSS
SVAVDD
SVAVSS
MVAVDD
MVAVSS
GND
LOCATION
LEFT-UP
RIGHT-DOWN
RIGHT-UP
LEFT-DOWN
CENTER-UP
PARTS SIDE
SOLDER SIDE
SUFFIX: AB

TH-58PX60U DT-Board (6 of 6) Schematic Diagram

TH-58PX60U
DT-Board (6 of 6) Schematic Diagram

46 47 48 49 50 51 52 53 54

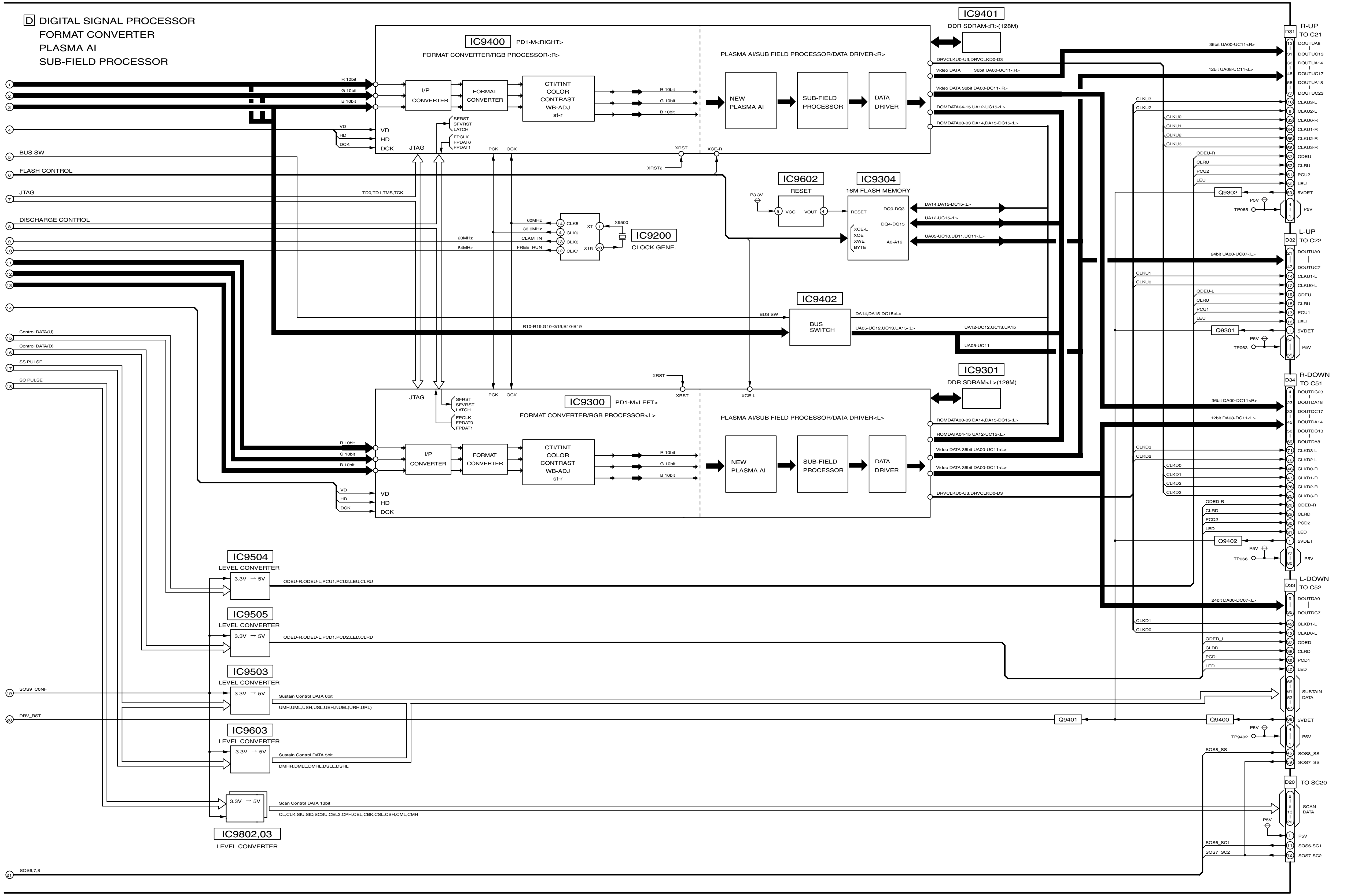
15.36. D-Board (1 of 2) Block Diagram


D DIGITAL SIGNAL PROCESSOR
FORMAT CONVERTER
PLASMA AI
SUB-FIELD PROCESSOR
TO DG5 D5
TO DG3 D3
TO P25 D25
FOR FACTORY USE D6
LVDS INPUT
LVDS (Low Voltage Differential Signaling) RECEIVER
PICTURE OUTPUT<R>
R10-R19(R)
G10-G19(R)
B10-B19(R)
FLASH CONTROL
PICTURE OUTPUT<L>
R10-R19(L)
G10-G19(L)
B10-B19(L)
JTAG
DISCHARGE CONTROL
DATA DRIVER
SS PULSE
SCAN OUT SC PULSE
RESET
IC9500 FPGA,ASIC
LVDS
SYNC PROCESSING
WB ADJ
DISCHARGE CONTROL
FLASH CONTROL
FPGA CONTROL
CONTROL
FPGA
IIC
TSET TERMINAL
DPCLK1
IC9002 DIGITAL TEMPERATURE SENSOR
IC9001 EEPROM
IC9003 MICOM
IC9007 PROM(FPGA)
IC9011 STB 3.3V/RESET
IC9800 DC-DC CONVERTER 15V → 1.2V
IC9807 DC-DC CONVERTER 15V → 3.3V
IC9809 DC-DC CONVERTER 15V → 2.5V
IC9801 AVR P1.5V
IC9806 AVR 5V
X9000 9.216MHz
Q9044
Q9046
Q9050
Q9057
Q9058
Q9200
Q9201
Q9100
Q9800
Q9803
Q9801
Q9805
Q9806
Q9054
Q9053
Q9052
Q9051
P+15V SOS / LED BLINKING : 2 TIMES
P+3.3V SOS / LED BLINKING : 3 TIMES
P+5V SOS / LED BLINKING : 5 TIMES
BUS SW
FLASH CONTROL
JTAG
DISCHARGE CONTROL
Control DATA(U)
Control DATA(D)
SS PULSE
SC PULSE
SOS9_CONF
DRV_RST
SOS6,7,8

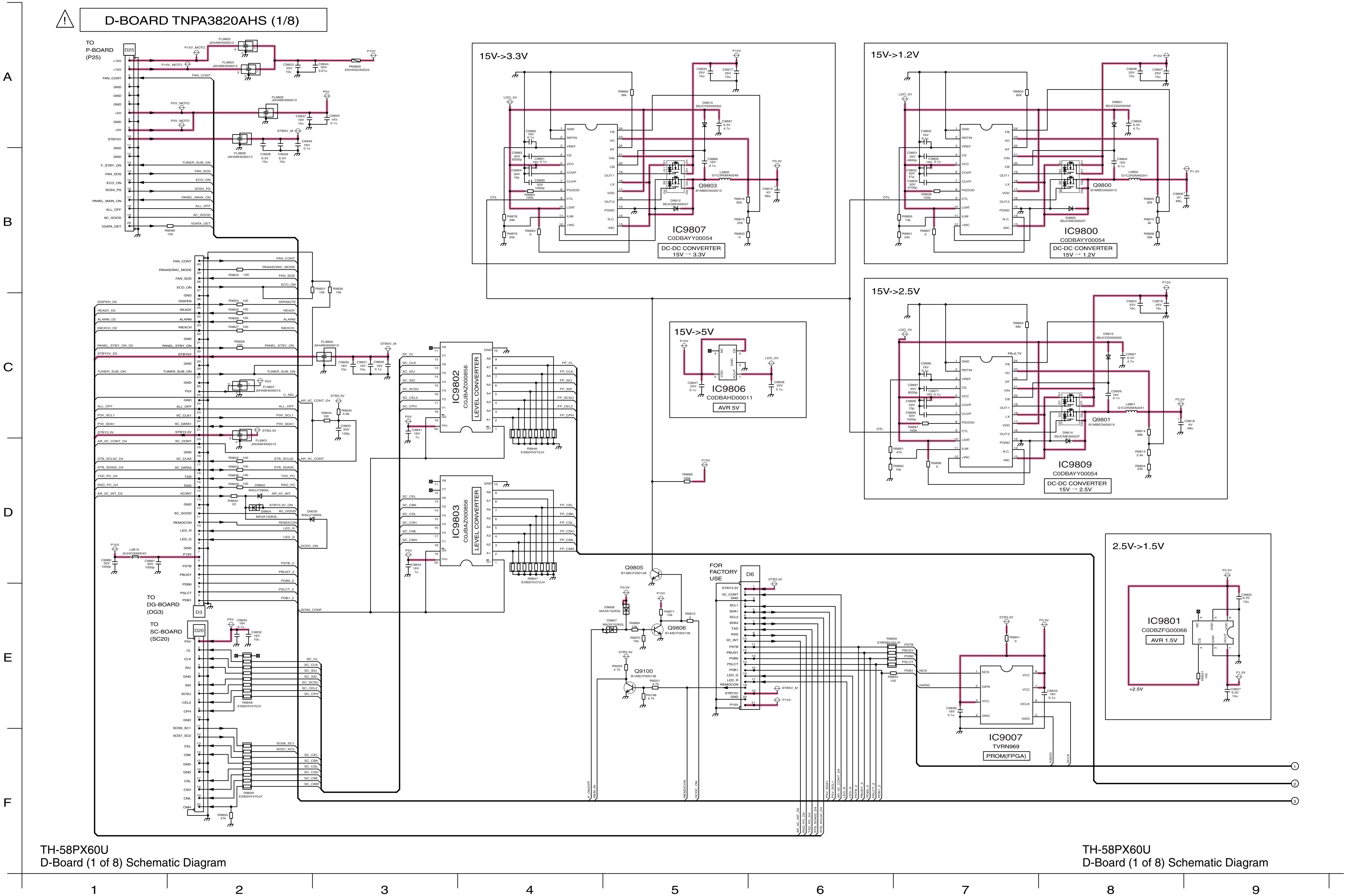
TH-58PX60U
D-Board (1 of 2) Block Diagram

TH-58PX60U
D-Board (1 of 2) Block Diagram

15.37. D-Board (2 of 2) Block Diagram


D DIGITAL SIGNAL PROCESSOR
FORMAT CONVERTER
PLASMA AI
SUB-FIELD PROCESSOR
1
2
3
4
5 BUS SW
6 FLASH CONTROL
7 JTAG
8 DISCHARGE CONTROL
9
10
11
12
13
14
15 Control DATA(U)
16 Control DATA(D)
17 SS PULSE
18 SC PULSE
19 SOS9_C0NF
20 DRV_RST
21 SOS6,7,8
R 10bit
G 10bit
B 10bit
VD
HD
DCK
TD0,TD1,TMS,TCK
20MHz
84MHz
R10-R19,G10-G19,B10-B19
IC9400
PD1-M<RIGHT>
FORMAT CONVERTER/RGB PROCESSOR<R>
I/P CONVERTER
FORMAT CONVERTER
CTI/TINT
COLOR
CONTRAST
WB-ADJ
st-r
JTAG
SFRST
SFVRST
LATCH
FPCLK
FPDAT0
FPDAT1
PCK
OCK
XRST
XCE-R
XRST2
PLASMA AI/SUB FIELD PROCESSOR/DATA DRIVER<R>
NEW PLASMA AI
SUB-FIELD PROCESSOR
DATA DRIVER
IC9401
DDR SDRAM<R>(128M)
DRVCLKU0-U3,DRVCLKD0-D3
Video DATA 36bit UA00-UC11<R>
Video DATA 36bit DA00-DC11<R>
ROMDATA04-15 UA12-UC15<L>
ROMDATA00-03 DA14,DA15-DC15<L>
IC9200
CLOCK GENE.
60MHz
36.6MHz
CLKM_IN
FREE_RUN
14 CLK5
4 CLK9
13 CLK6
12 CLK7
XT 1
XTN 20
X9500
IC9602
RESET
P3.3V
5 VCC
VOUT 4
IC9304
16M FLASH MEMORY
RESET
XCE-L
XOE
XWE
BYTE
DQ0-DQ3
DQ4-DQ15
A0-A19
DA14,DA15-DC15<L>
UA12-UC15<L>
UA05-UC10,UB11,UC11<L>
IC9402
BUS SW
BUS SWITCH
DA14,DA15-DC15<L>
UA05-UC12,UC13,UA15<L>
UA12-UC12,UC13,UA15
UA05-UC11
IC9301
DDR SDRAM<L>(128M)
XRST
XCE-L
IC9300
PD1-M<LEFT>
FORMAT CONVERTER/RGB PROCESSOR<L>
PLASMA AI/SUB FIELD PROCESSOR/DATA DRIVER<L>
ROMDATA00-03 DA14,DA15-DC15<L>
ROMDATA04-15 UA12-UC15<L>
Video DATA 36bit UA00-UC11<L>
Video DATA 36bit DA00-DC11<L>
DRVCLKU0-U3,DRVCLKD0-D3
D31 R-UP TO C21
36bit UA00-UC11<R>
12bit UA08-UC11<L>
12 DOUTUA8 – 31 DOUTUC13
36 DOUTUA14 – 48 DOUTUC17
58 DOUTUA18 – 77 DOUTUC23
CLKU3
CLKU2
CLKU0
CLKU1
10 CLKU3-L
9 CLKU2-L
33 CLKU0-R
34 CLKU1-R
55 CLKU2-R
56 CLKU3-R
ODEU-R
53 ODEU
52 CLRU
51 PCU2
50 LEU
Q9302
80 5VDET
P5V
TP065
4 – 1 P5V
D32 L-UP TO C22
24bit UA00-UC07<L>
21 DOUTUA0 – 47 DOUTUC7
CLKU1
CLKU0
14 CLKU1-L
12 CLKU0-L
ODEU-L
19 ODEU
18 CLRU
17 PCU1
16 LEU
Q9301
1 5VDET
TP063
52 – 55 P5V
D34 R-DOWN TO C51
36bit DA00-DC11<R>
12bit DA08-DC11<L>
4 DOUTDC23 – 23 DOUTDA18
33 DOUTDC17 – 45 DOUTDA14
50 DOUTDC13 – 69 DOUTDA8
CLKD3
CLKD2
CLKD0
CLKD1
71 CLKD3-L
72 CLKD2-L
48 CLKD0-R
47 CLKD1-R
26 CLKD2-R
25 CLKD3-R
ODED-R
28 ODED-R
29 CLRD
30 PCD2
31 LED
Q9402
1 5VDET
TP066
77 – 80 P5V
D33 L-DOWN TO C52
24bit DA00-DC07<L>
9 DOUTDA0 – 35 DOUTDC7
CLKD1
CLKD0
42 CLKD1-L
43 CLKD0-L
ODED_L
37 ODED
38 CLRD
39 PCD1
40 LED
66 – 61 52 – 47 SUSTAIN DATA
Q9401
Q9400
68 5VDET
TP9402
4 – 1 P5V
SOS8_SS
45 SOS8_SS
59 SOS7_SS
D20 TO SC20
2 – 9 13 – 20 SCAN DATA
1 P5V
SOS6_SC1
SOS7_SC2
11 SOS6-SC1
12 SOS7-SC2
IC9504
LEVEL CONVERTER
3.3V → 5V
ODEU-R,ODEU-L,PCU1,PCU2,LEU,CLRU
IC9505
LEVEL CONVERTER
3.3V → 5V
ODED-R,ODED-L,PCD1,PCD2,LED,CLRD
IC9503
LEVEL CONVERTER
3.3V → 5V
Sustain Control DATA 6bit
UMH,UML,USH,USL,UEH,NUEL(URH,URL)
IC9603
LEVEL CONVERTER
3.3V → 5V
Sustain Control DATA 5bit
DMHR,DMLL,DMHL,DSLL,DSHL
3.3V → 5V
Scan Control DATA 13bit
CL,CLK,SIU,SID,SCSU,CEL2,CPH,CEL,CBK,CSL,CSH,CML,CMH
IC9802,03
LEVEL CONVERTER

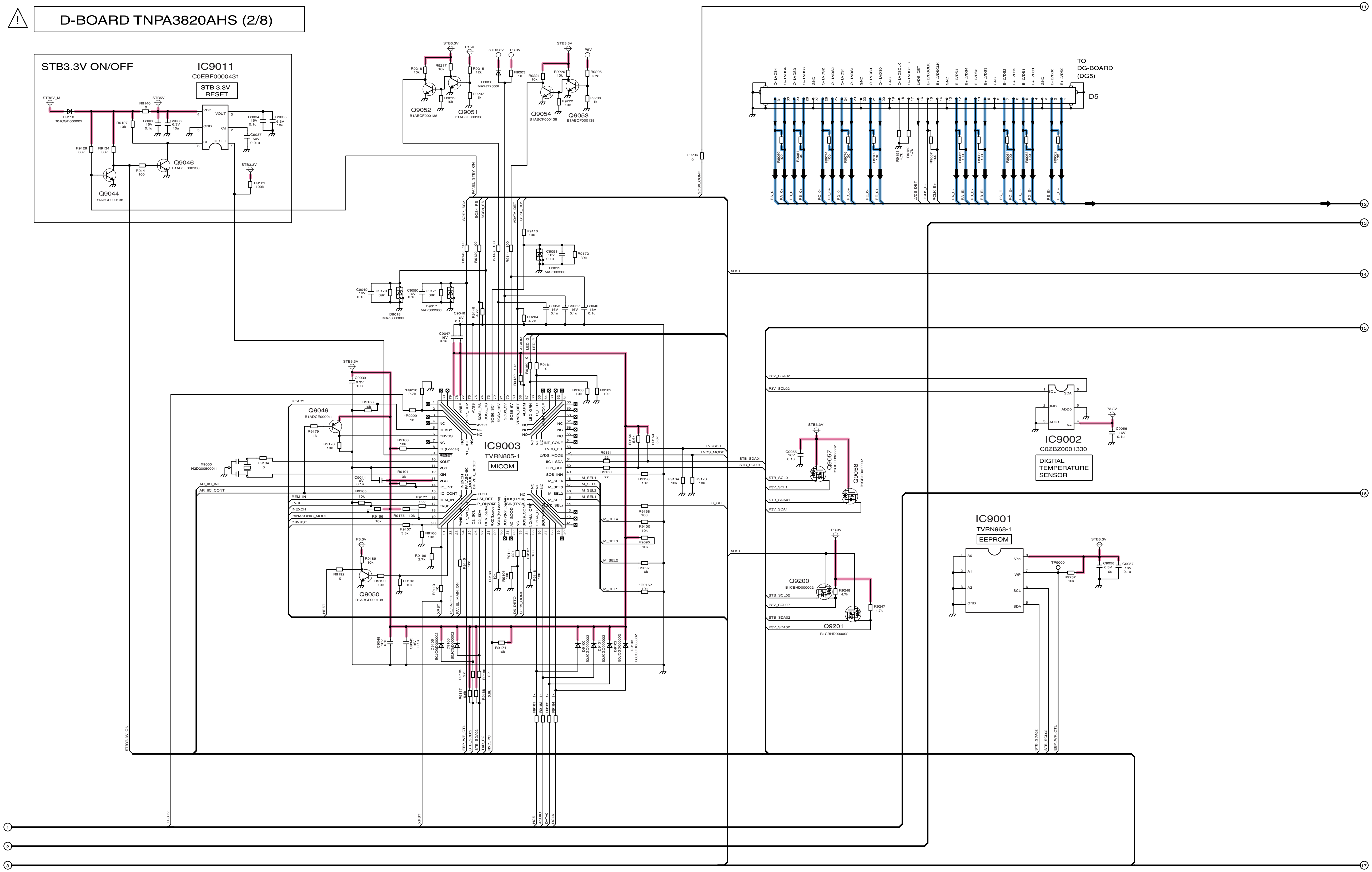
15.38. D-Board (1 of 8) Schematic Diagram


D-BOARD TNPA3820AHS (1/8)
TO P-BOARD (P25)
D25
15V->3.3V
IC9807
C0DBAYY00054
DC-DC CONVERTER 15V → 3.3V
Q9803
B1MBEDA00015
15V->1.2V
IC9800
C0DBAYY00054
DC-DC CONVERTER 15V → 1.2V
Q9800
B1MBEDA00015
15V->5V
IC9806
C0DBAHD00011
AVR 5V
15V->2.5V
IC9809
C0DBAYY00054
DC-DC CONVERTER 15V → 2.5V
Q9801
B1MBEDA00015
2.5V->1.5V
IC9801
C0DBZFG00066
AVR 1.5V
IC9802
C0JBAZ000856
LEVEL CONVERTER
IC9803
C0JBAZ000856
LEVEL CONVERTER
TO DG-BOARD (DG3)
D3
TO SC-BOARD (SC20)
D20
Q9805
B1ABCF000138
Q9806
B1ABCF000138
Q9100
B1ABCF000138
FOR FACTORY USE
D6
IC9007
TVRN969
PROM(FPGA)
CTL
LDO_5V
P15V
P3.3V
P1.2V
P2.5V
P1.5V
STB3.3V
STB5V_M
P5V
①
②
③
A
B
C
D
E
F
1
2
3
4
5
6
7
8
9

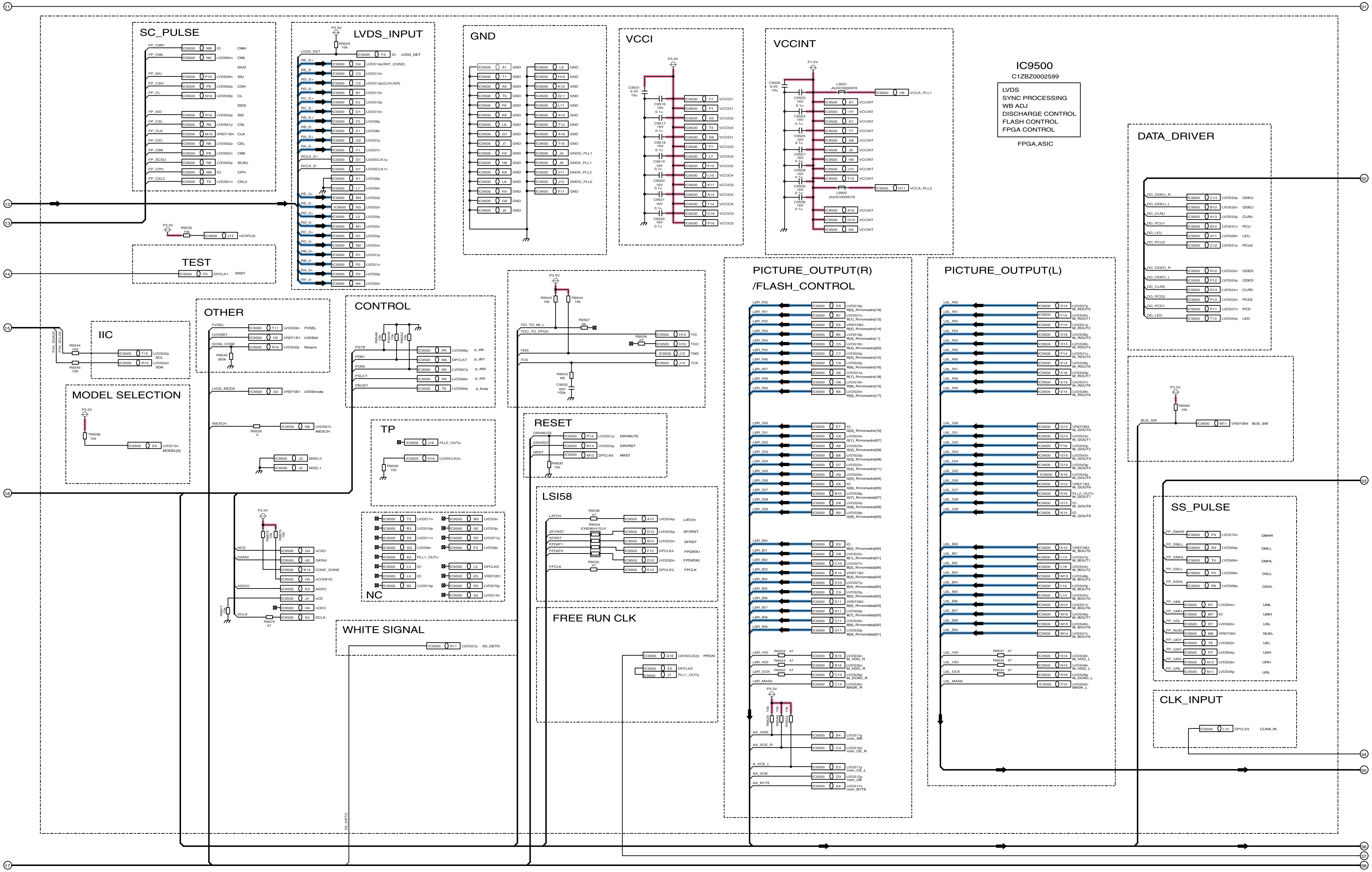
TH-58PX60U
D-Board (1 of 8) Schematic Diagram

TH-58PX60U
D-Board (1 of 8) Schematic Diagram

15.39. D-Board (2 of 8) Schematic Diagram


D-BOARD TNPA3820AHS (2/8)
STB3.3V ON/OFF
IC9011
C0EBF0000431
STB 3.3V RESET
Q9044
Q9046
Q9052
Q9051
Q9054
Q9053
TO DG-BOARD (DG5)
D5
Q9049
IC9003
TVRN805-1
MICOM
Q9050
Q9057
Q9058
IC9002
C0ZBZ0001330
DIGITAL TEMPERATURE SENSOR
IC9001
TVRN968-1
EEPROM
Q9200
Q9201
XRST
STB3.3V_ON
1
2
3
11
12
13
14
15
16
17

15.40. D-Board (3 of 8) Schematic Diagram


SC_PULSE
LVDS_INPUT
GND
VCCI
VCCINT
IC9500
C1ZBZ0002599
LVDS
SYNC PROCESSING
WB ADJ
DISCHARGE CONTROL
FLASH CONTROL
FPGA CONTROL
FPGA,ASIC
DATA_DRIVER
TEST
OTHER
IIC
CONTROL
MODEL SELECTION
TP
RESET
LSI58
NC
WHITE SIGNAL
FREE RUN CLK
PICTURE_OUTPUT(R)
/FLASH_CONTROL
PICTURE_OUTPUT(L)
SS_PULSE
CLK_INPUT
P3.3V
P1.5V

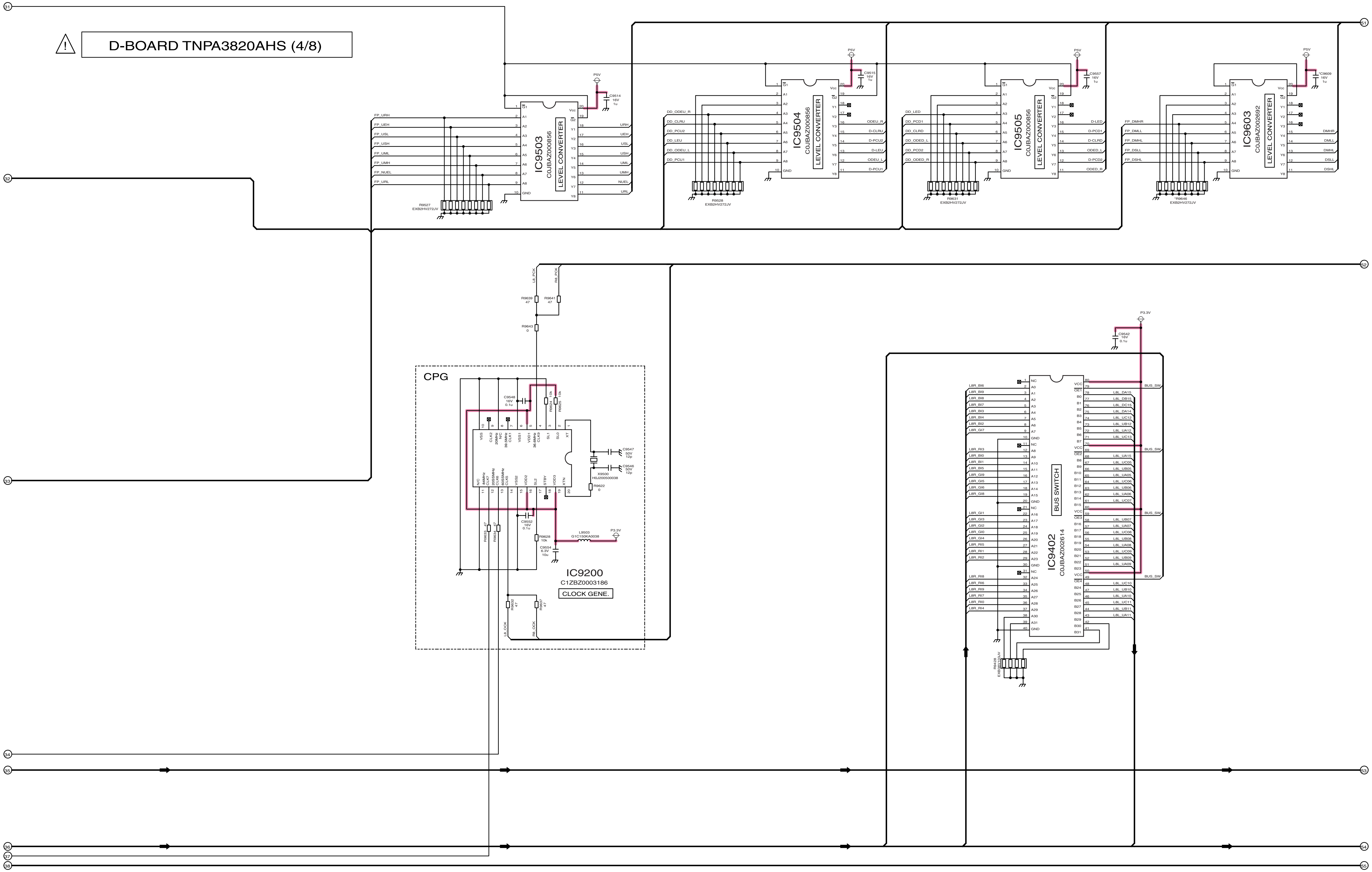
D-BOARD TNPA3820AHS (3/8)

TH-58PX60U
D-Board (3 of 8) Schematic Diagram

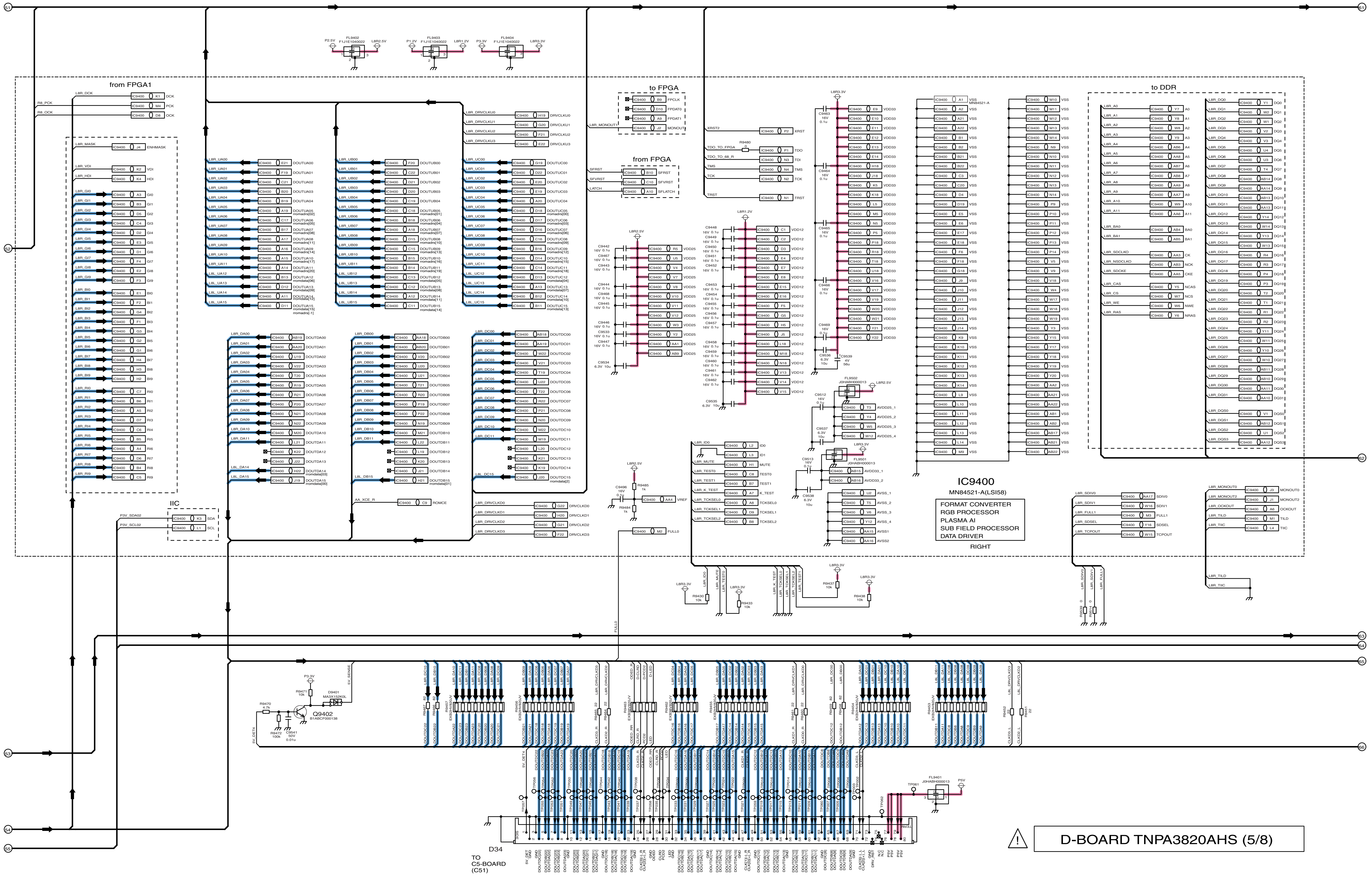
TH-58PX60U
D-Board (3 of 8) Schematic Diagram

19 20 21 22 23 24 25 26 27

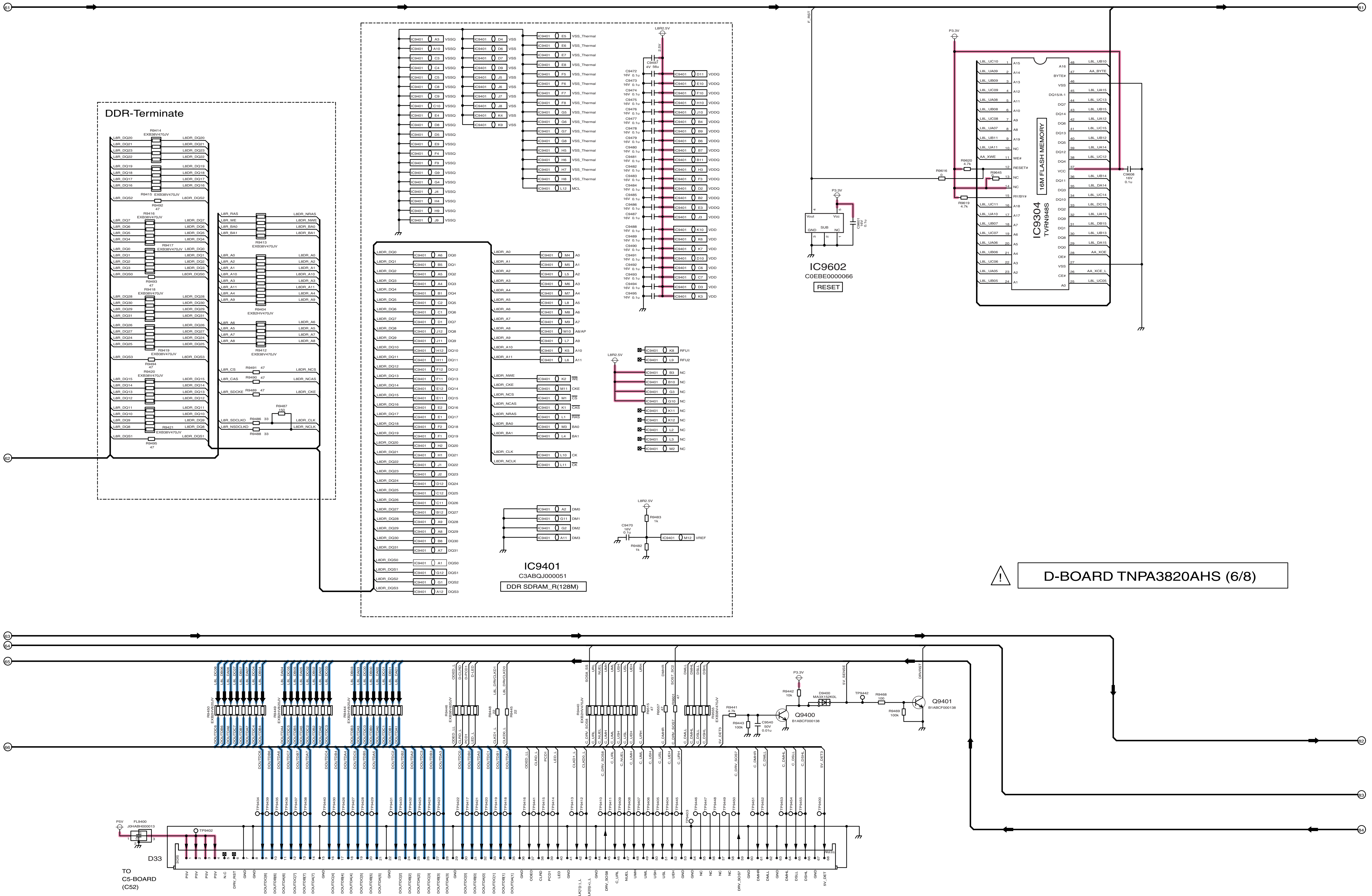
15.41. D-Board (4 of 8) Schematic Diagram


D-BOARD TNPA3820AHS (4/8)
31
32
33
34
35
36
37
38
51
52
53
54
55
IC9503
C0JBAZ000856
LEVEL CONVERTER
P5V
C9514 16V 1u
FP_URH
FP_UEH
FP_USL
FP_USH
FP_UML
FP_UMH
FP_NUEL
FP_URL
G1 A1 A2 A3 A4 A5 A6 A7 A8 GND
Vcc G2 Y1 Y2 Y3 Y4 Y5 Y6 Y7 Y8
URH
UEH
USL
USH
UML
UMH
NUEL
URL
R9527 EXB2HV272JV
IC9504
C0JBAZ000856
LEVEL CONVERTER
C9515 16V 1u
DD_ODEU_R
DD_CLRU
DD_PCU2
DD_LEU
DD_ODEU_L
DD_PCU1
ODEU_R
D-CLRU
D-PCU2
D-LEU
ODEU_L
D-PCU1
R9528 EXB2HV272JV
IC9505
C0JBAZ000856
LEVEL CONVERTER
C9557 16V 1u
DD_LED
DD_PCD1
DD_CLRD
DD_ODED_L
DD_PCD2
DD_ODED_R
D-LED
D-PCD1
D-CLRD
ODED_L
D-PCD2
ODED_R
R9631 EXB2HV272JV
IC9603
C0JBAZ002692
LEVEL CONVERTER
*C9609 16V 1u
FP_DMHR
FP_DMLL
FP_DMHL
FP_DSLL
FP_DSHL
DMHR
DMLL
DMHL
DSLL
DSHL
*R9646 EXB2HV272JV
L8_PCK
R8_PCK
R9639 47
R9641 47
R9643 0
CPG
C9548 16V 0.1u
R9624 10k
R9625 10k
VSS
CLK2 20MHz
N/C
39.5MHz CLK1
VSS1
VDD1
36.6MHz CLK9
SL1
SL0
XT
N/C
84MHz CLK7
20SSMHz CLK6
60SSMHz CLK5
VSS2
VDD2
SL2
STBY
VDD3
XTN
C9547 50V 12p
C9546 50V 12p
X9500 H0J200500038
R9622 0
C9552 16V 0.1u
R9633 47
R9634 47
R9628 10k
C9554 6.3V 10u
L9503 G1C150KA0038
P3.3V
IC9200
C1ZBZ0003186
CLOCK GENE.
R9632 47
R9637 47
L8_OCK
R8_OCK
C9542 16V 0.1u
IC9402
C0JBAZ002614
BUS SWITCH
L8R_BI6
L8R_BI9
L8R_BI8
L8R_BI7
L8R_BI3
L8R_BI4
L8R_BI2
L8R_GI7
L8R_RI3
L8R_BI0
L8R_BI1
L8R_BI5
L8R_GI9
L8R_GI5
L8R_GI6
L8R_GI8
L8R_GI1
L8R_GI3
L8R_GI2
L8R_GI0
L8R_GI4
L8R_RI5
L8R_RI1
L8R_RI2
L8R_RI8
L8R_RI6
L8R_RI9
L8R_RI7
L8R_RI0
L8R_RI4
NC A0 A1 A2 A3 A4 A5 A6 A7 GND NC A8 A9 A10 A11 A12 A13 A14 A15 GND NC A16 A17 A18 A19 A20 A21 A22 A23 GND NC A24 A25 A26 A27 A28 A29 A30 A31 GND
VCC OE1 B0 B1 B2 B3 B4 B5 B6 B7 VCC OE2 B8 B9 B10 B11 B12 B13 B14 B15 VCC OE3 B16 B17 B18 B19 B20 B21 B22 B23 VCC OE4 B24 B25 B26 B27 B28 B29 B30 B31
BUS_SW
L8L_DA15
L8L_DB15
L8L_DC15
L8L_DA14
L8L_UC12
L8L_UB12
L8L_UA12
L8L_UC13
L8L_UA15
L8L_UC05
L8L_UB05
L8L_UA05
L8L_UC06
L8L_UB06
L8L_UA06
L8L_UC07
L8L_UB07
L8L_UA07
L8L_UC08
L8L_UB08
L8L_UA08
L8L_UC09
L8L_UB09
L8L_UA09
L8L_UC10
L8L_UB10
L8L_UA10
L8L_UC11
L8L_UB11
L8L_UA11
R9428 EXB38V103JV

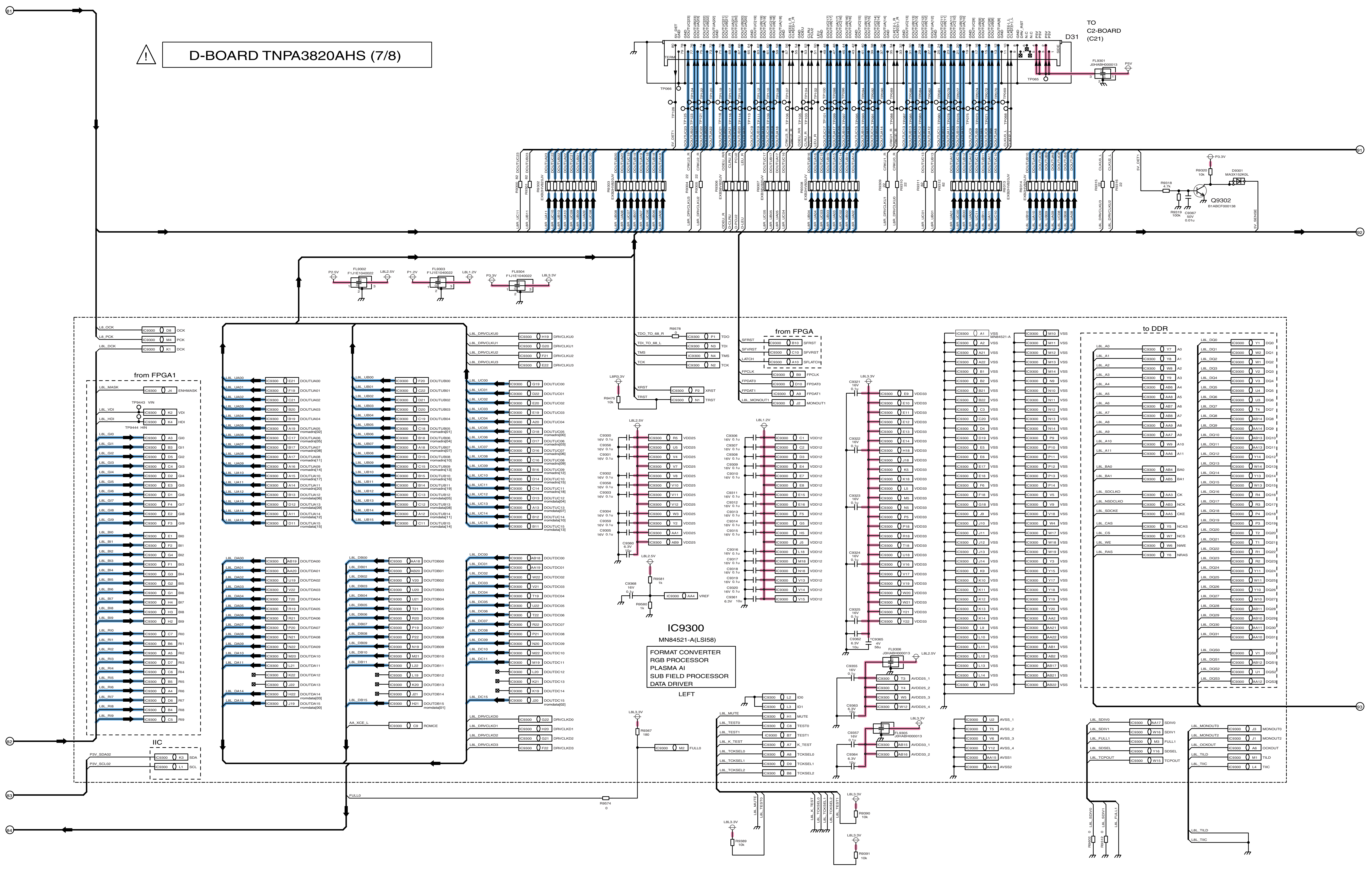
15.42. D-Board (5 of 8) Schematic Diagram


FL9402
FL9403
FL9404
from FPGA1
to FPGA
from FPGA
to DDR
IIC
IC9400
MN84521-A(LSI58)
FORMAT CONVERTER
RGB PROCESSOR
PLASMA AI
SUB FIELD PROCESSOR
DATA DRIVER
RIGHT
Q9402
D9401
FL9401
D34
TO
C5-BOARD
(C51)
D-BOARD TNPA3820AHS (5/8)

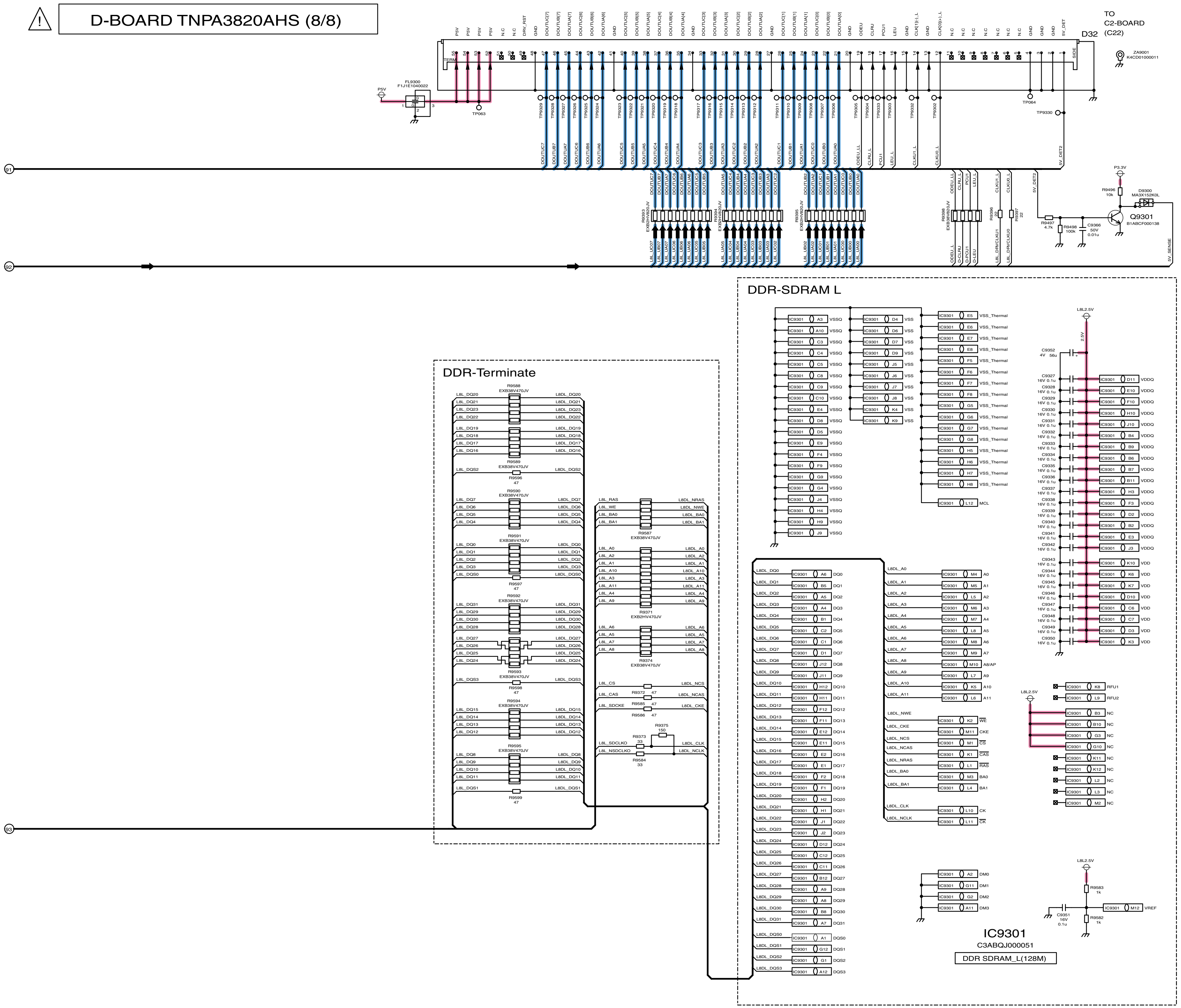
15.43. D-Board (6 of 8) Schematic Diagram


DDR-Terminate
IC9401
C3ABQJ000051
DDR SDRAM_R(128M)
IC9602
C0EBE0000066
RESET
IC9304
TVRN948S
16M FLASH MEMORY
Q9400
B1ABCF000138
Q9401
B1ABCF000138
D-BOARD TNPA3820AHS (6/8)
FL9400
D33
TO
C5-BOARD
(C52)

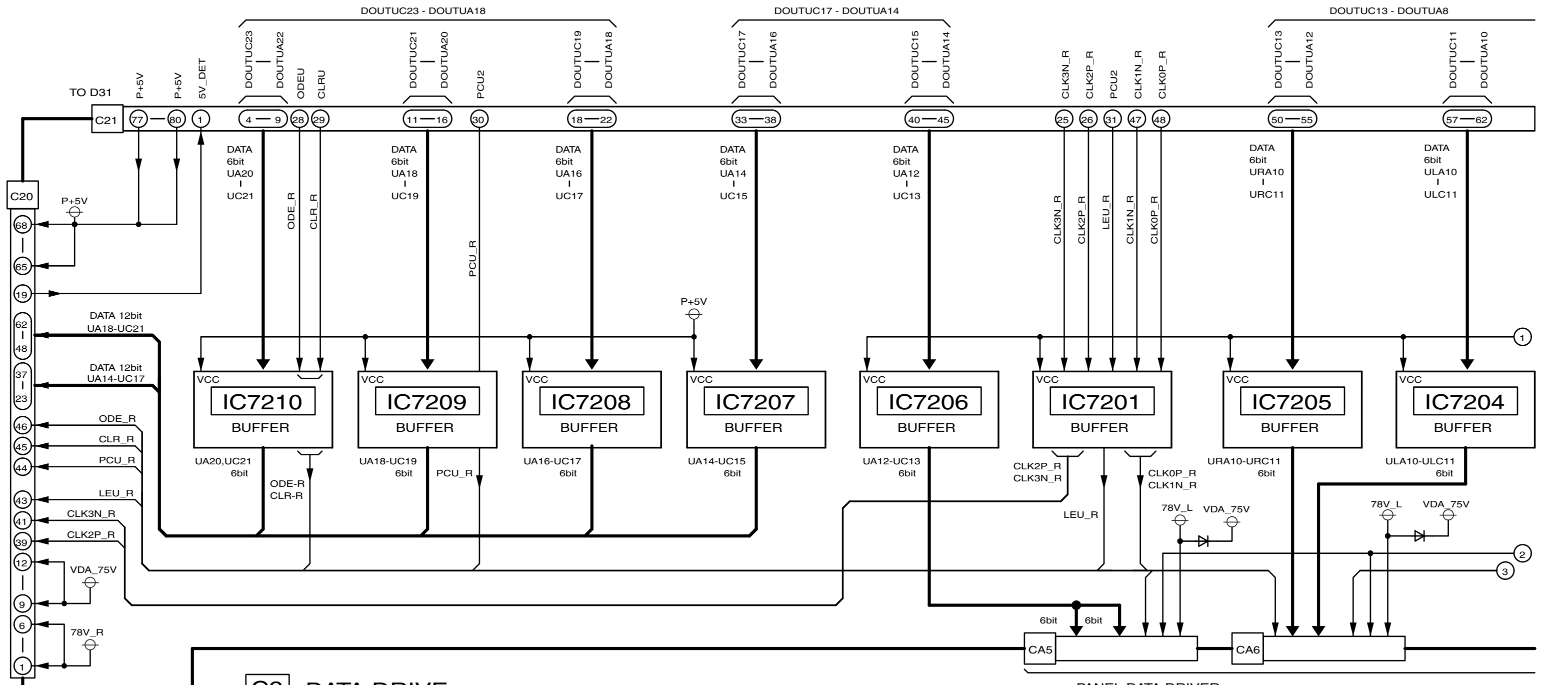
15.44. D-Board (7 of 8) Schematic Diagram


D-BOARD TNPA3820AHS (7/8)
TO
C2-BOARD
(C21)
D31
FL9301
FL9302
FL9303
FL9304
Q9302
B1ABCF000138
from FPGA1
from FPGA
to DDR
IIC
IC9300
MN84521-A(LSI58)
FORMAT CONVERTER
RGB PROCESSOR
PLASMA AI
SUB FIELD PROCESSOR
DATA DRIVER
LEFT

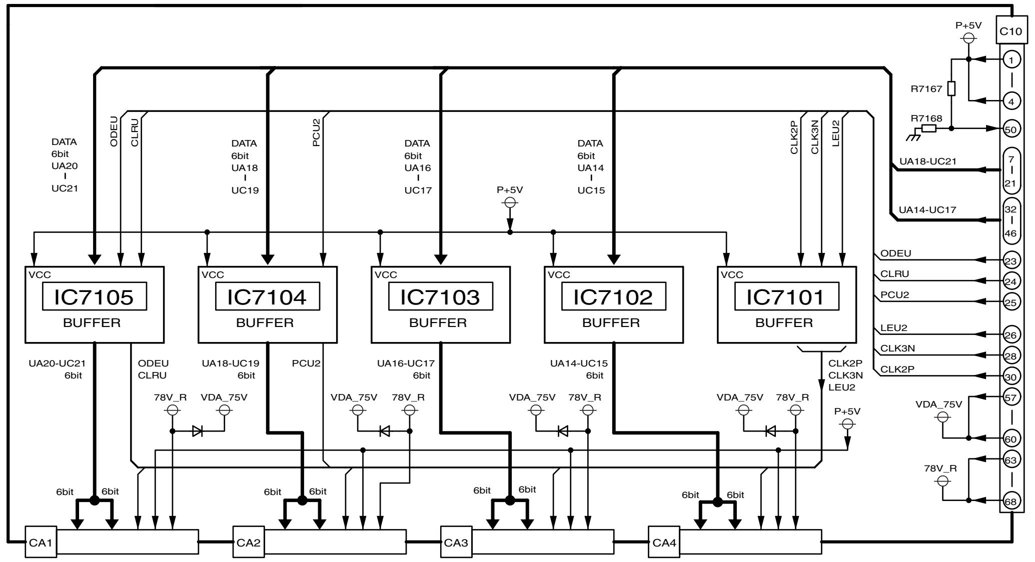
15.45. D-Board (8 of 8) Schematic Diagram


D-BOARD TNPA3820AHS (8/8)
TO
C2-BOARD
(C22)
D32
FL9300
F1J1E1040022
P5V
TP063
TP064
TP9330
ZA9001
K4CD01000011
P3.3V
R9496
10k
D9300
MA3X152K0L
R9497
4.7k
R9498
100k
C9366
50V
0.01u
Q9301
B1ABCF000136
5V_SENSE
DDR-SDRAM L
DDR-Terminate
L8L2.5V
IC9301
C3ABQJ000051
DDR SDRAM_L(128M)
VSSQ
VSS
VSS_Thermal
VDDQ
VDD
MCL
RFU1
RFU2
NC
VREF
R9583
1k
R9582
1k
C9351
16V
0.1u

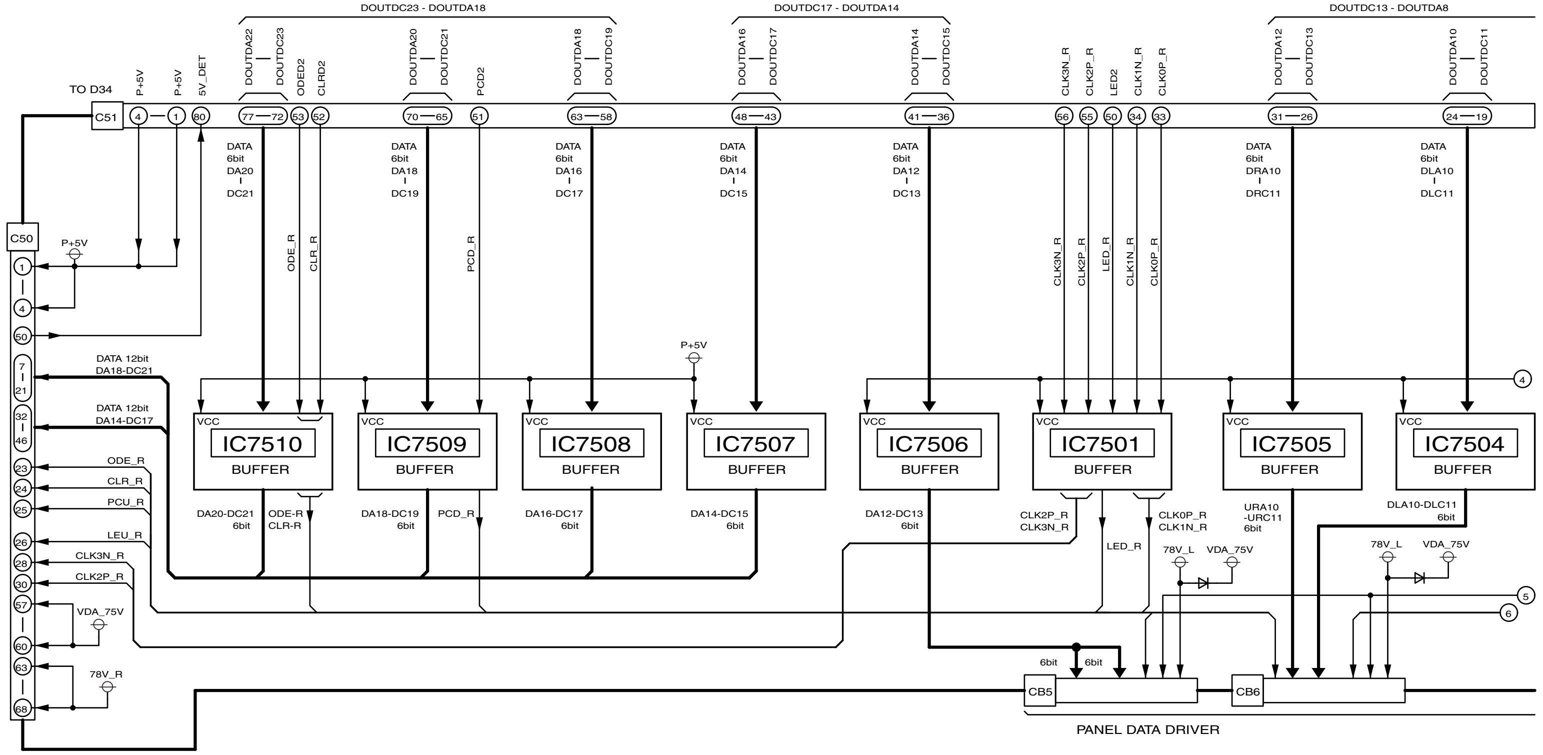
15.46. C1, C2, C5 and C6 Block Diagram

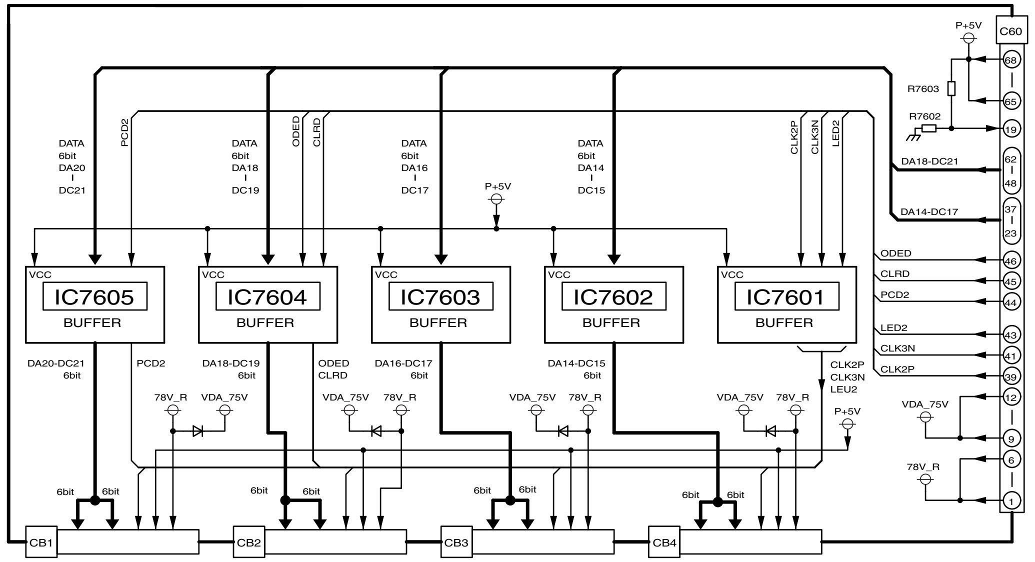

DOUTUC23 - DOUTUA18
DOUTUC17 - DOUTUA14
DOUTUC13 - DOUTUA8
TO D31
C21
C20
P+5V
5V_DET
ODE_R
CLR_R
PCU_R
CLK3N_R
CLK2P_R
LEU_R
CLK1N_R
CLK0P_R
DATA 12bit UA18-UC21
DATA 12bit UA14-UC17
IC7210
IC7209
IC7208
IC7207
IC7206
IC7201
IC7205
IC7204
BUFFER
VCC
78V_L
VDA_75V
CA5
CA6
PANEL DATA DRIVER

C2 DATA DRIVE
LOWER CENTER (FRONT VIEW)


C10
P+5V
R7167
R7168
+5V_DET
DOUTUC21 DOUTUA18
DOUTUC17 DOUTUA14
ODEU
CLRU
PCU2
LEU2
CLK3N-R
CLK2P-R
VDA_75V
78V(Vda)-R
IC7105
IC7104
IC7103
IC7102
IC7101
BUFFER
VCC
78V_R
6bit
CA1
CA2
CA3
CA4

C1 DATA DRIVE
UPPER RIGHT (FRONT VIEW)

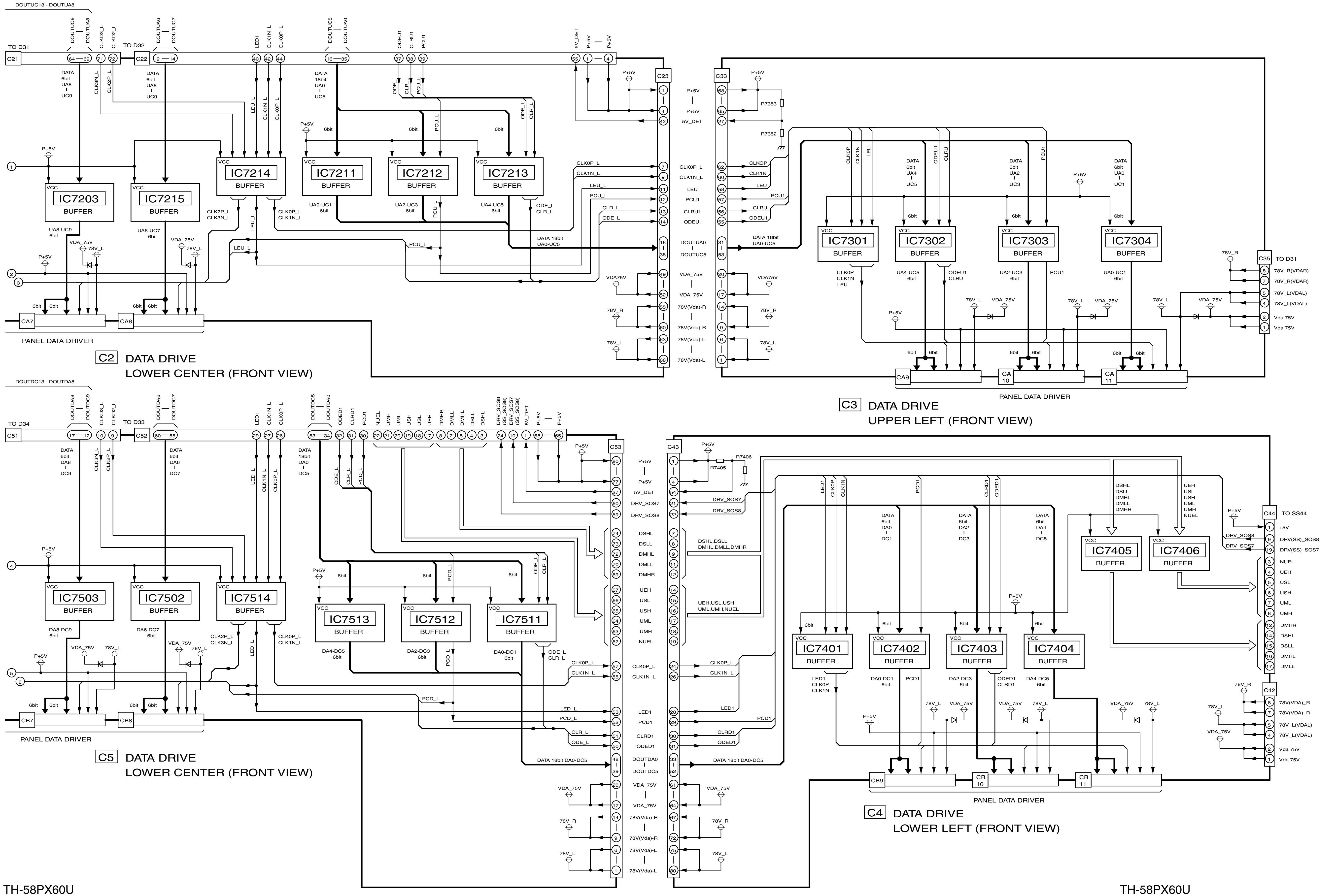

DOUTDC23 - DOUTDA18
DOUTDC17 - DOUTDA14
DOUTDC13 - DOUTDA8
TO D34
C51
C50
P+5V
5V_DET
ODE_R
CLR_R
PCD_R
CLK3N_R
CLK2P_R
LED_R
CLK1N_R
CLK0P_R
DATA 12bit DA18-DC21
DATA 12bit DA14-DC17
IC7510
IC7509
IC7508
IC7507
IC7506
IC7501
IC7505
IC7504
BUFFER
VCC
78V_L
VDA_75V
CB5
CB6
PANEL DATA DRIVER


C60
P+5V
R7603
R7602
+5V_DET
DOUTDC21 DOUTDA18
DOUTDC17 DOUTDA14
ODED
CLRD
PCD2
LED2
CLK3N-R
CLK2P-R
VDA_75V
78V(Vda)-R
IC7605
IC7604
IC7603
IC7602
IC7601
BUFFER
VCC
78V_R
6bit
CB1
CB2
CB3
CB4

C6 DATA DRIVE
LOWER RIGHT (FRONT VIEW)

C5 DATA DRIVE
LOWER CENTER (FRONT VIEW)

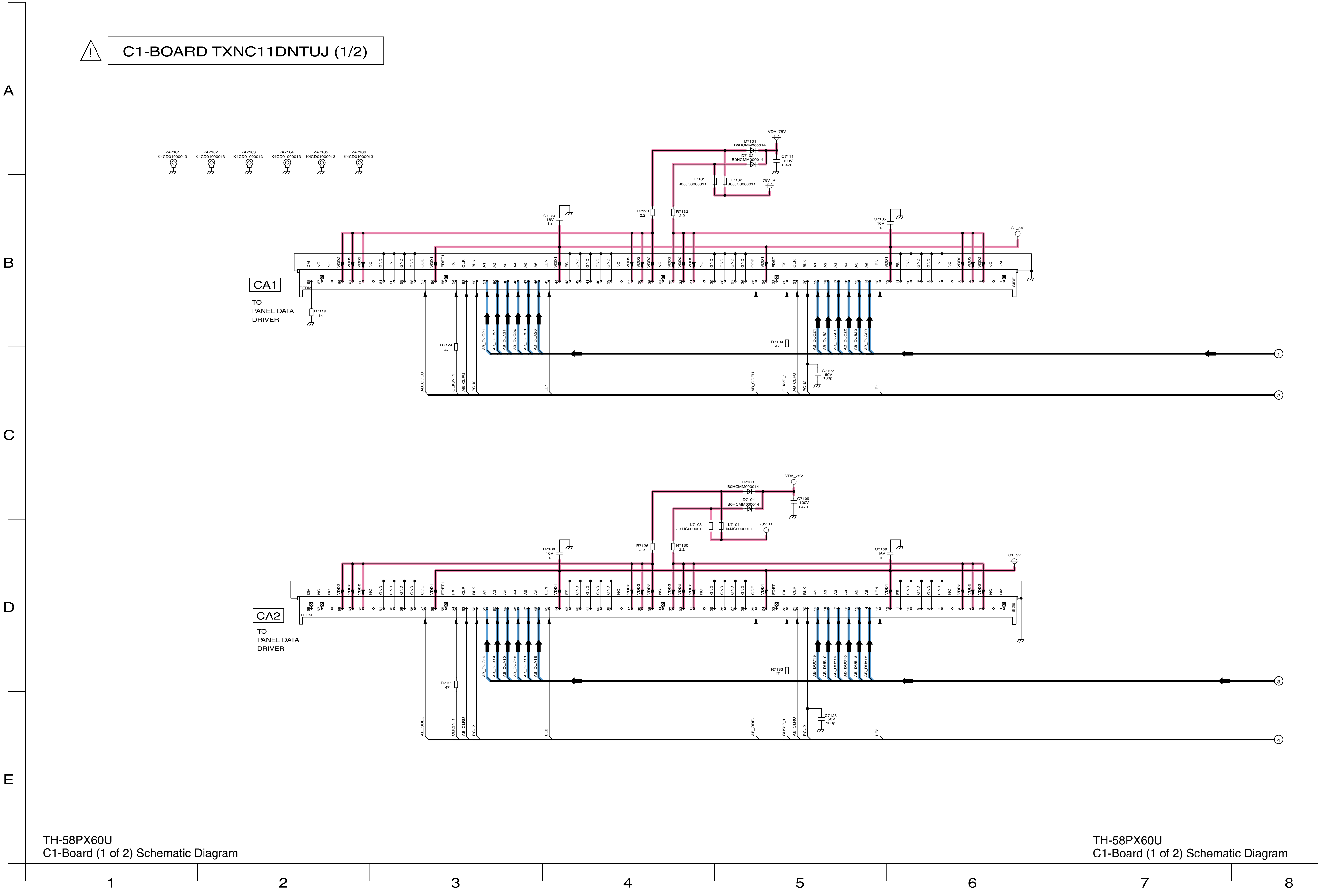
15.47. C2, C3, C4 and C5 Board Block Diagram


DOUTUC13 - DOUTUA8
TO D31
C21
TO D32
C22
C23
C33
IC7214
IC7211
IC7212
IC7213
IC7203
IC7215
BUFFER
VCC
P+5V
VDA_75V
78V_L
78V_R
CA7
CA8
PANEL DATA DRIVER
C2 DATA DRIVE
LOWER CENTER (FRONT VIEW)
IC7301
IC7302
IC7303
IC7304
R7353
R7352
C35 TO D31
CA9
CA 10
CA 11
C3 DATA DRIVE
UPPER LEFT (FRONT VIEW)
DOUTDC13 - DOUTDA8
TO D34
C51
TO D33
C52
C53
C43
R7405
R7406
IC7503
IC7502
IC7514
IC7513
IC7512
IC7511
CB7
CB8
C5 DATA DRIVE
LOWER CENTER (FRONT VIEW)
IC7401
IC7402
IC7403
IC7404
IC7405
IC7406
C44 TO SS44
C42
CB9
CB 10
CB 11
C4 DATA DRIVE
LOWER LEFT (FRONT VIEW)

TH-58PX60U
C2, C3, C4 and C5-Board Block Diagram

TH-58PX60U
C2, C3, C4 and C5-Board Block Diagram

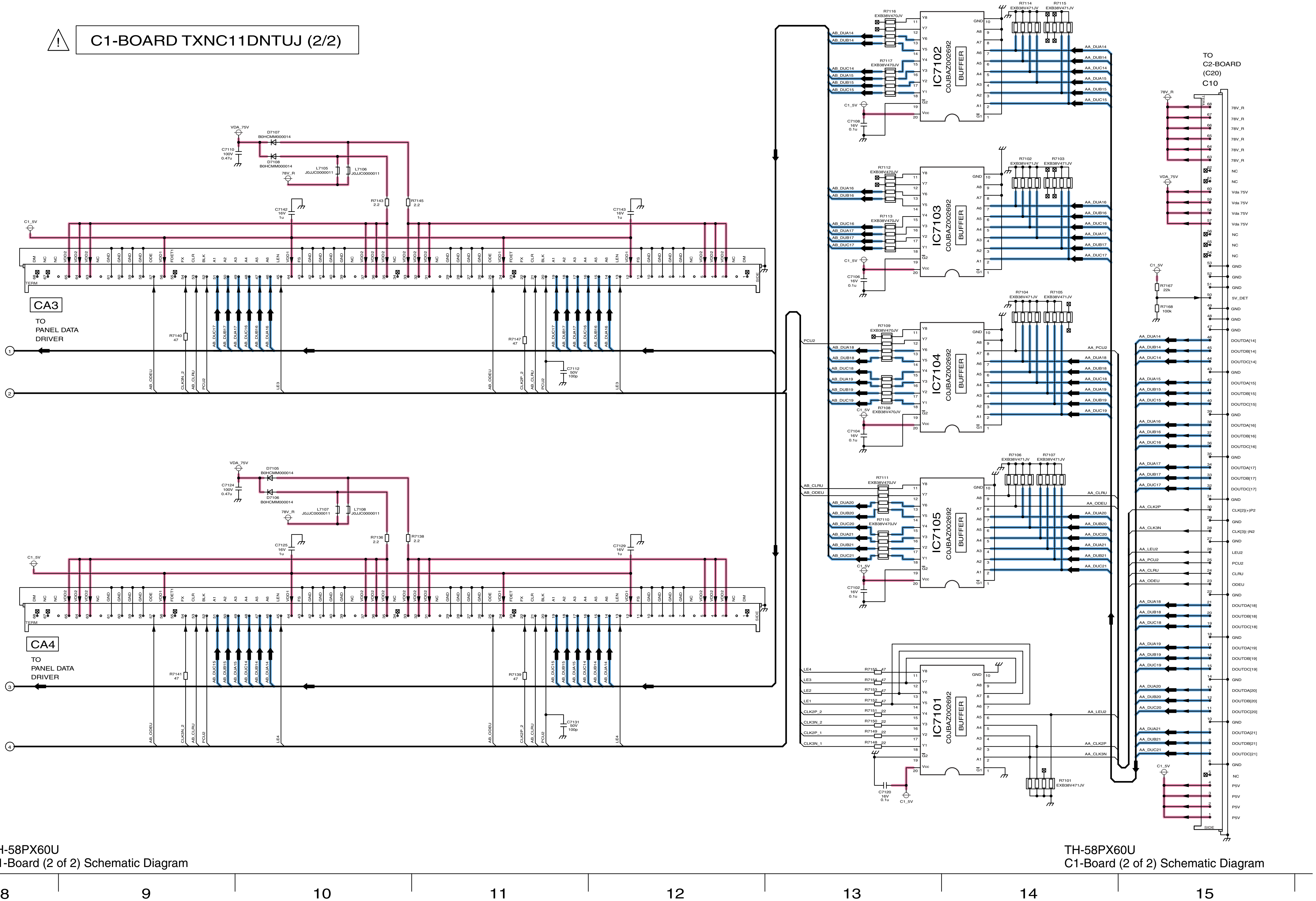
15.48. C1-Board (1 of 2) Schematic Diagram


C1-BOARD TXNC11DNTUJ (1/2)
A
B
C
D
E
ZA7101 K4CD01000013
ZA7102 K4CD01000013
ZA7103 K4CD01000013
ZA7104 K4CD01000013
ZA7105 K4CD01000013
ZA7106 K4CD01000013
VDA_75V
D7101 B0HCMM000014
D7102 B0HCMM000014
C7111 100V 0.47u
L7101 J0JJC0000011
L7102 J0JJC0000011
78V_R
C7134 16V 1u
R7128 2.2
R7132 2.2
C7135 16V 1u
C1_5V
CA1
TO PANEL DATA DRIVER
TERM
R7119 1k
DM
NC
VDD2
GND
ODE
VDD1
FDET1
FDET
FX
CLR
BLK
A1
A2
A3
A4
A5
A6
LEN
FS
SIDE
R7124 47
R7134 47
AB_DUC21
AB_DUB21
AB_DUA21
AB_DUC20
AB_DUB20
AB_DUA20
C7122 50V 100p
AB_ODEU
CLK3N_1
CLK2P_1
AB_CLRU
PCU2
LE1
①
②
VDA_75V
D7103 B0HCMM000014
D7104 B0HCMM000014
C7109 100V 0.47u
L7103 J0JJC0000011
L7104 J0JJC0000011
78V_R
C7138 16V 1u
R7126 2.2
R7130 2.2
C7139 16V 1u
C1_5V
CA2
TO PANEL DATA DRIVER
R7121 47
R7133 47
AB_DUC19
AB_DUB19
AB_DUA19
AB_DUC18
AB_DUB18
AB_DUA18
C7123 50V 100p
LE2
③
④
1
2
3
4
5
6
7
8

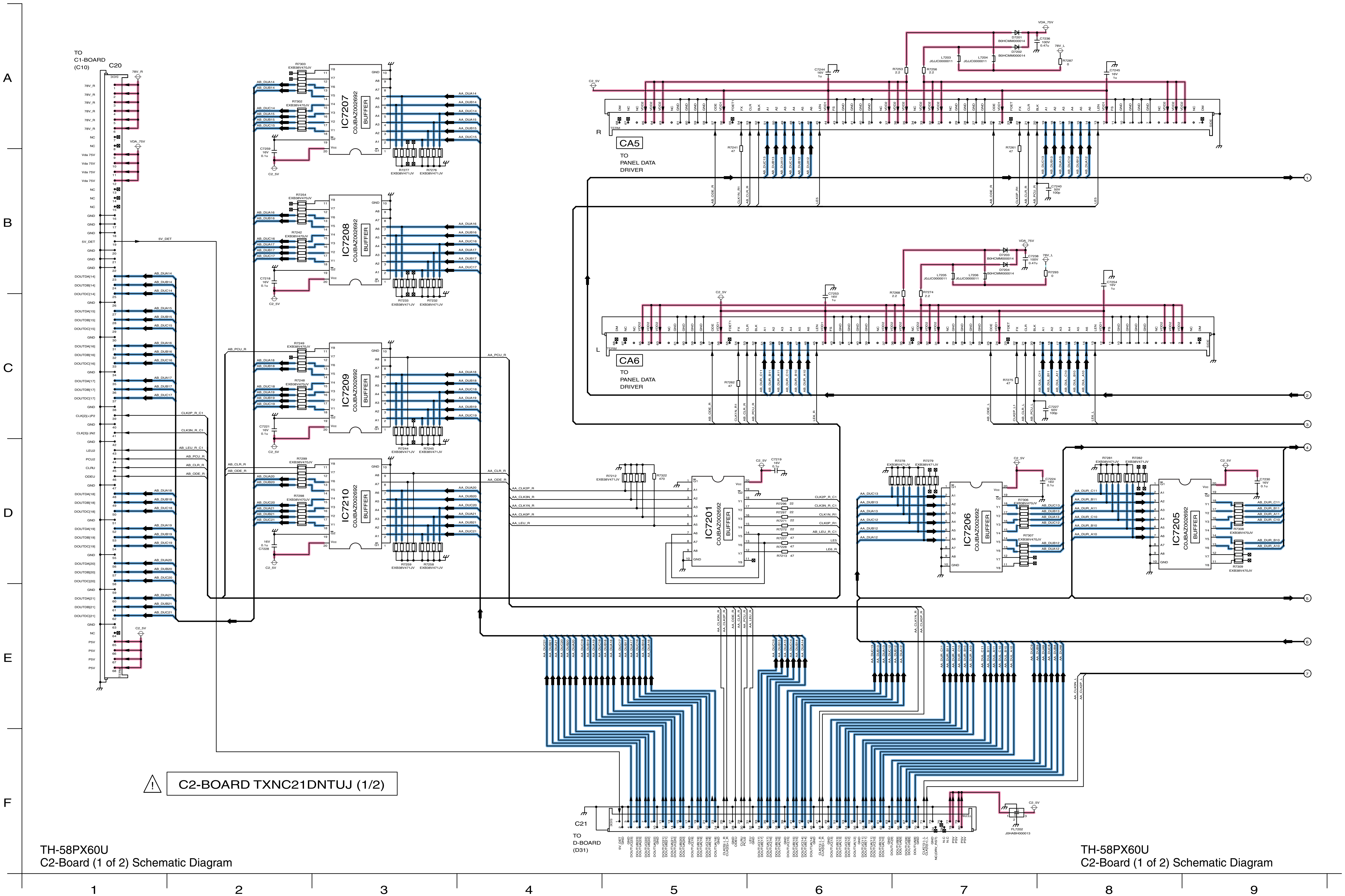
TH-58PX60U
C1-Board (1 of 2) Schematic Diagram

TH-58PX60U
C1-Board (1 of 2) Schematic Diagram

15.49. C1-Board (2 of 2) Schematic Diagram


C1-BOARD TXNC11DNTUJ (2/2)
CA3
TO
PANEL DATA
DRIVER
CA4
TO
PANEL DATA
DRIVER
VDA_75V
D7107
B0HCMM000014
D7108
B0HCMM000014
C7110
100V
0.47u
L7105
J0JJC0000011
L7106
J0JJC0000011
78V_R
R7143
2.2
R7145
2.2
C7142
16V
1u
C7143
16V
1u
C1_5V
R7140
47
R7147
47
C7112
50V
100p
D7105
B0HCMM000014
D7106
B0HCMM000014
C7124
100V
0.47u
L7107
J0JJC0000011
L7108
J0JJC0000011
R7136
2.2
R7138
2.2
C7125
16V
1u
C7129
16V
1u
R7141
47
R7139
47
C7131
50V
100p
AB_ODEU
CLK3N_2
AB_CLRU
PCU2
LE3
LE4
CLK2P_2
TERM
SIDE
IC7102
C0JBAZ002692
BUFFER
IC7103
C0JBAZ002692
BUFFER
IC7104
C0JBAZ002692
BUFFER
IC7105
C0JBAZ002692
BUFFER
IC7101
C0JBAZ002692
BUFFER
R7116
EXB38V470JV
R7117
EXB38V470JV
R7114
EXB38V471JV
R7115
EXB38V471JV
C7108
16V
0.1u
R7112
EXB38V470JV
R7113
EXB38V470JV
R7102
EXB38V471JV
R7103
EXB38V471JV
C7106
16V
0.1u
R7109
EXB38V470JV
R7108
EXB38V470JV
R7104
EXB38V471JV
R7105
EXB38V471JV
C7104
16V
0.1u
R7111
EXB38V470JV
R7110
EXB38V470JV
R7106
EXB38V471JV
R7107
EXB38V471JV
C7102
16V
0.1u
R7155 47
R7154 47
R7153 47
R7152 47
R7151 22
R7150 22
R7149 22
R7148 22
C7120
16V
0.1u
R7101
EXB38V471JV
LE4
LE3
LE2
LE1
CLK2P_2
CLK3N_2
CLK2P_1
CLK3N_1
AA_LEU2
AA_CLK2P
AA_CLK3N
AA_PCU2
AA_CLRU
AA_ODEU
TO
C2-BOARD
(C20)
C10
R7167
22k
R7168
100k
78V_R
VDA_75V
NC
Vda 75V
GND
5V_DET
DOUTDA[14]
DOUTDB[14]
DOUTDC[14]
DOUTDA[15]
DOUTDB[15]
DOUTDC[15]
DOUTDA[16]
DOUTDB[16]
DOUTDC[16]
DOUTDA[17]
DOUTDB[17]
DOUTDC[17]
CLK[2](+)P2
CLK[3](-)N2
LEU2
PCU2
CLRU
ODEU
DOUTDA[18]
DOUTDB[18]
DOUTDC[18]
DOUTDA[19]
DOUTDB[19]
DOUTDC[19]
DOUTDA[20]
DOUTDB[20]
DOUTDC[20]
DOUTDA[21]
DOUTDB[21]
DOUTDC[21]
P5V
8
9
10
11
12
13
14
15

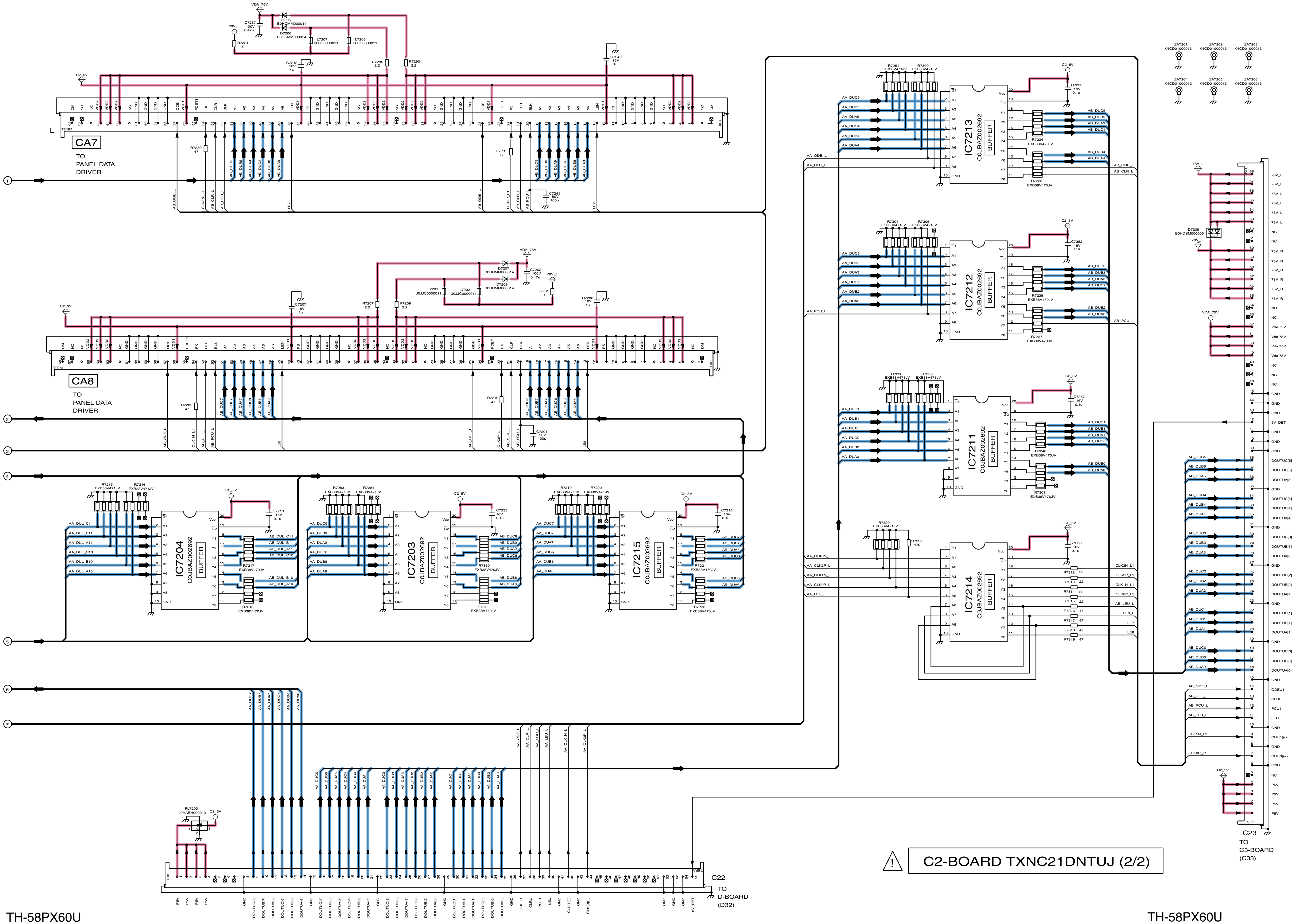
15.50. C2-Board (1 of 2) Schematic Diagram


A
B
C
D
E
F
1
2
3
4
5
6
7
8
9
TO
C1-BOARD
(C10)
C20
IC7207
C0JBAZ002692
BUFFER
IC7208
C0JBAZ002692
BUFFER
IC7209
C0JBAZ002692
BUFFER
IC7210
C0JBAZ002692
BUFFER
IC7201
C0JBAZ002692
BUFFER
IC7206
C0JBAZ002692
BUFFER
IC7205
C0JBAZ002692
BUFFER
R
CA5
TO
PANEL DATA
DRIVER
L
CA6
TO
PANEL DATA
DRIVER
VDA_75V
C2_5V
5V_DET
C21
TO
D-BOARD
(D31)
FL7202
J0HABH000013
C2-BOARD TXNC21DNTUJ (1/2)

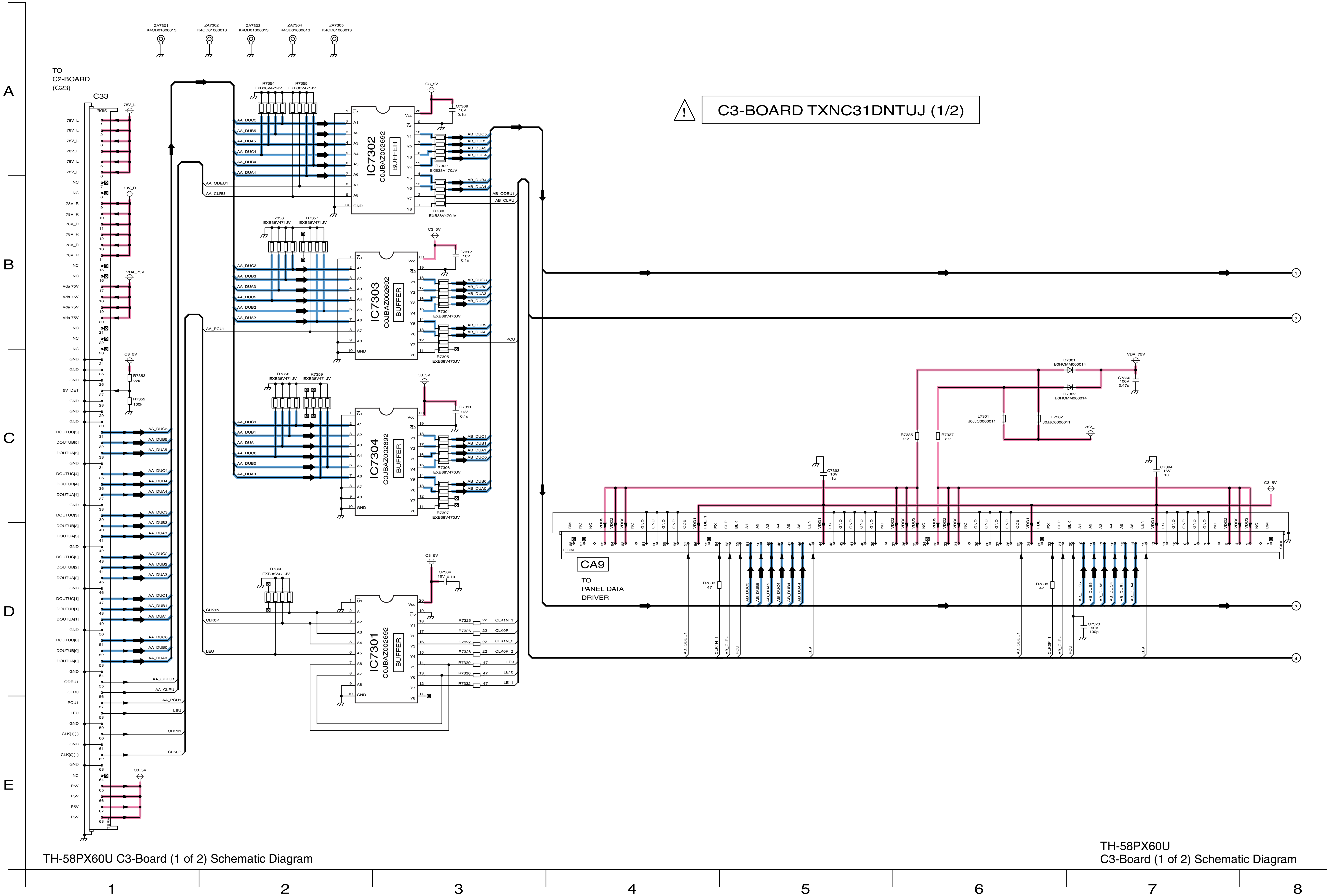
TH-58PX60U
C2-Board (1 of 2) Schematic Diagram

TH-58PX60U
C2-Board (1 of 2) Schematic Diagram

15.51. C2-Board (2 of 2) Schematic Diagram


CA7
TO
PANEL DATA
DRIVER
CA8
TO
PANEL DATA
DRIVER
IC7213
C0JBAZ002692
BUFFER
IC7212
C0JBAZ002692
BUFFER
IC7211
C0JBAZ002692
BUFFER
IC7214
C0JBAZ002692
BUFFER
IC7204
C0JBAZ002692
BUFFER
IC7203
C0JBAZ002692
BUFFER
IC7215
C0JBAZ002692
BUFFER
C23
TO
C3-BOARD
(C33)
C22
TO
D-BOARD
(D32)
C2-BOARD TXNC21DNTUJ (2/2)

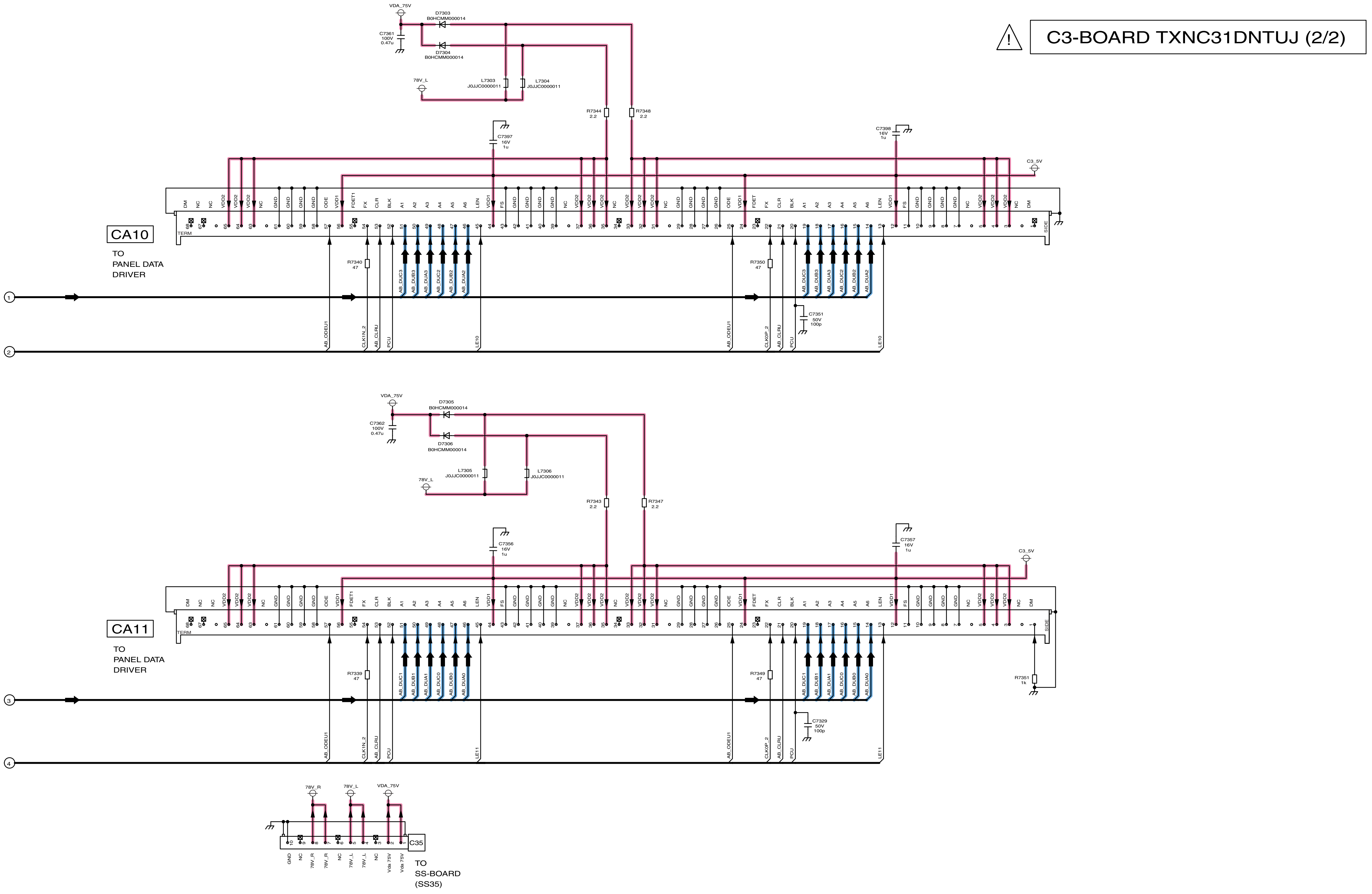
15.52. C3-Board (1 of 2) Schematic Diagram


A
B
C
D
E
1
2
3
4
5
6
7
8
C3-BOARD TXNC31DNTUJ (1/2)
TO
C2-BOARD
(C23)
C33
ZA7301
K4CD01000013
ZA7302
K4CD01000013
ZA7303
K4CD01000013
ZA7304
K4CD01000013
ZA7305
K4CD01000013
IC7302
C0JBAZ002692
BUFFER
IC7303
C0JBAZ002692
BUFFER
IC7304
C0JBAZ002692
BUFFER
IC7301
C0JBAZ002692
BUFFER
R7354
EXB38V471JV
R7355
EXB38V471JV
R7356
EXB38V471JV
R7357
EXB38V471JV
R7358
EXB38V471JV
R7359
EXB38V471JV
R7360
EXB38V471JV
R7302
EXB38V470JV
R7303
EXB38V470JV
R7304
EXB38V470JV
R7305
EXB38V470JV
R7306
EXB38V470JV
R7307
EXB38V470JV
C7309
16V
0.1u
C7312
16V
0.1u
C7311
16V
0.1u
C7304
16V
0.1u
C3_5V
78V_L
78V_R
VDA_75V
R7353
22k
R7352
100k
5V_DET
ODEU1
CLRU
PCU1
LEU
CLK[1](-)
CLK[0](+)
P5V
TERM
AA_ODEU1
AA_CLRU
AA_PCU1
CLK1N
CLK0P
AB_ODEU1
AB_CLRU
PCU
R7325 22 CLK1N_1
R7326 22 CLK0P_1
R7327 22 CLK1N_2
R7328 22 CLK0P_2
R7329 47 LE9
R7330 47 LE10
R7332 47 LE11
D7301
B0HCMM000014
D7302
B0HCMM000014
C7360
100V
0.47u
L7301
J0JJC0000011
L7302
J0JJC0000011
R7335
2.2
R7337
2.2
C7393
16V
1u
C7394
16V
1u
C7323
50V
100p
R7333
47
R7338
47
CA9
TO
PANEL DATA
DRIVER
1
2
3
4

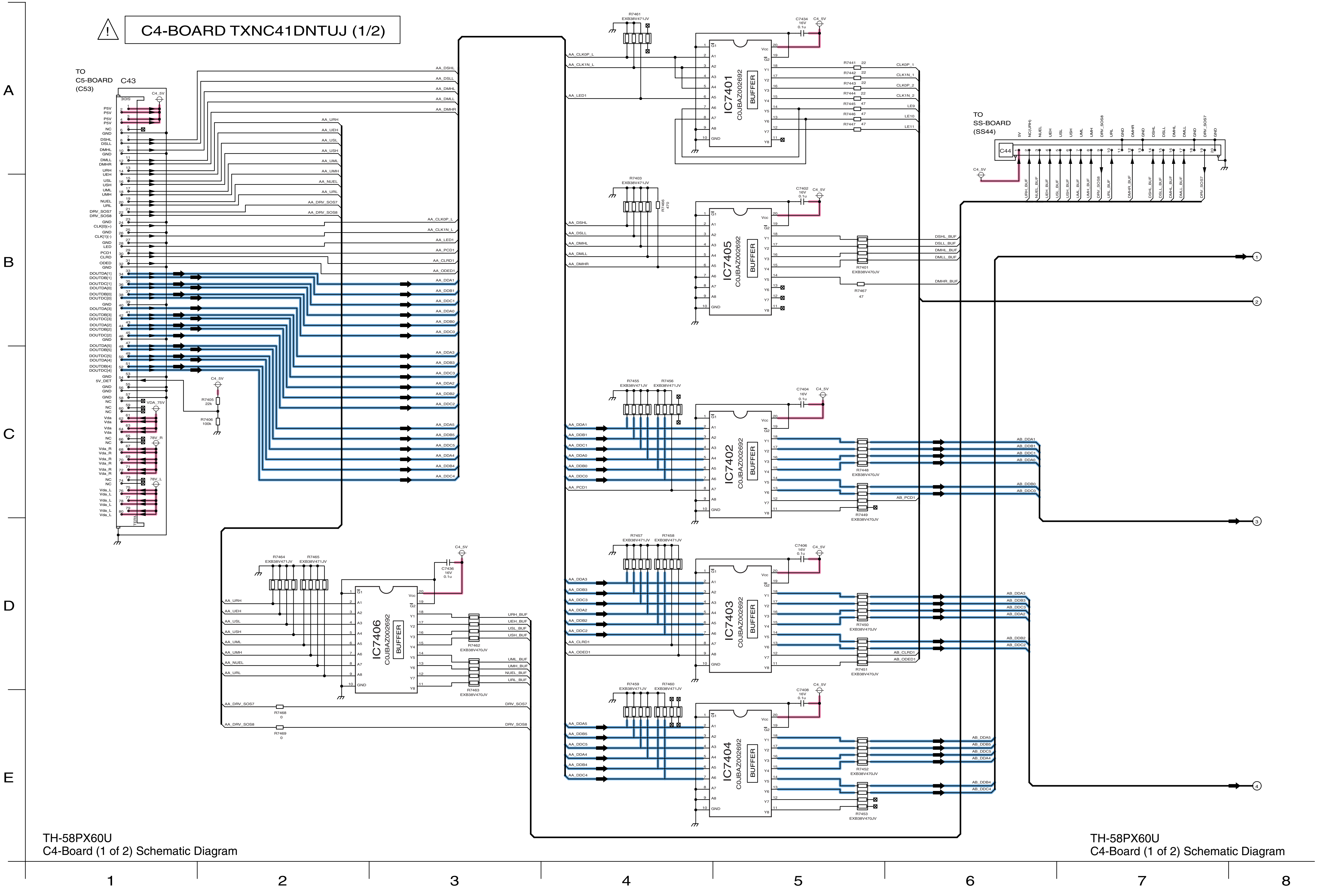
TH-58PX60U C3-Board (1 of 2) Schematic Diagram

TH-58PX60U
C3-Board (1 of 2) Schematic Diagram

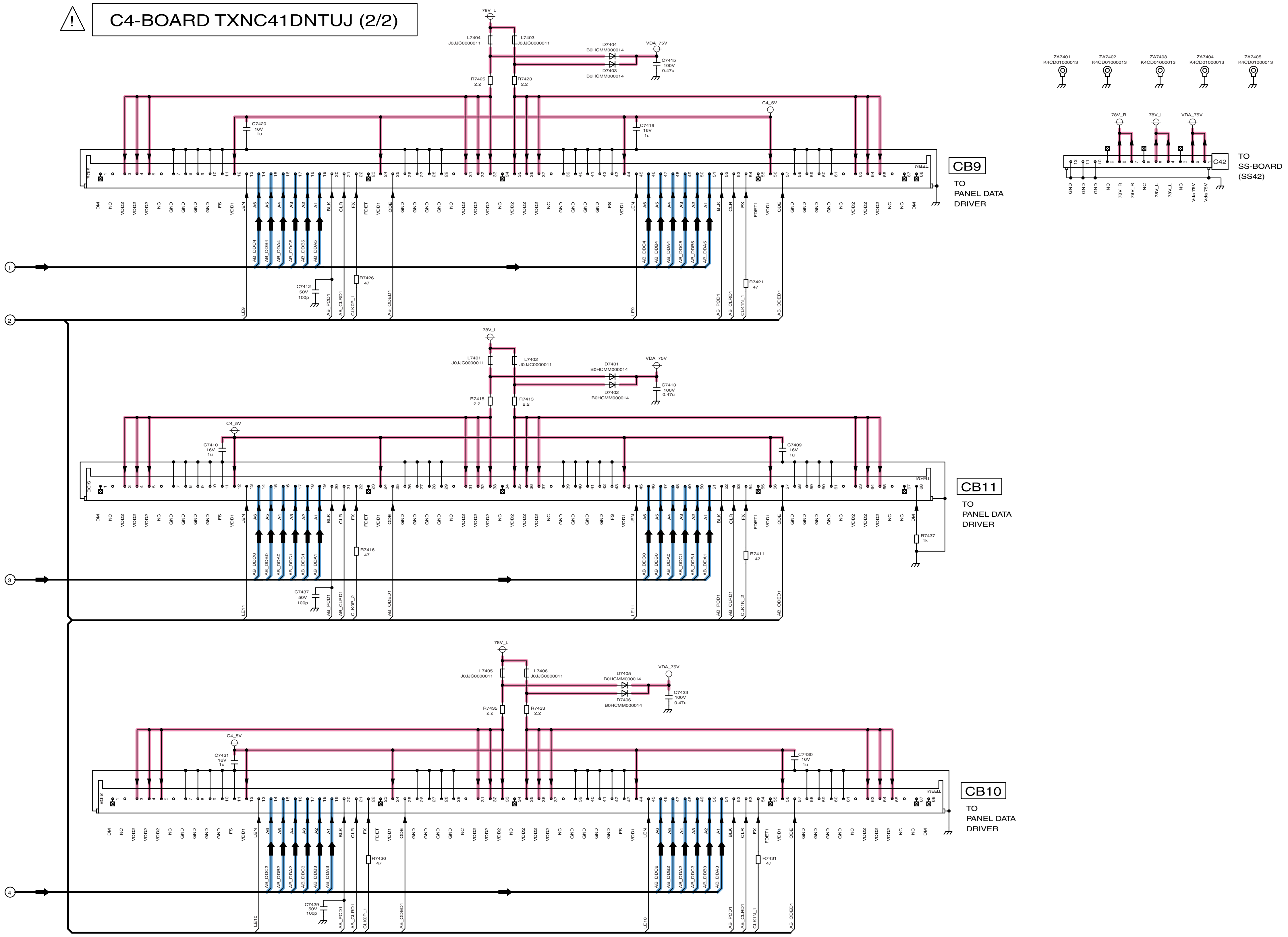
15.53. C3-Board (2 of 2) Schematic Diagram


C3-BOARD TXNC31DNTUJ (2/2)
VDA_75V
D7303
B0HCMM000014
D7304
B0HCMM000014
C7361
100V
0.47u
78V_L
L7303
J0JJC0000011
L7304
J0JJC0000011
R7344
2.2
R7348
2.2
C7397
16V
1u
C7398
16V
1u
C3_5V
CA10
TERM
TO
PANEL DATA
DRIVER
R7340
47
R7350
47
C7351
50V
100p
AB_DUC3
AB_DUB3
AB_DUA3
AB_DUC2
AB_DUB2
AB_DUA2
AB_ODEU1
CLK1N_2
AB_CLRU
PCU
LE10
CLKSP_2
VDA_75V
D7305
B0HCMM000014
D7306
B0HCMM000014
C7362
100V
0.47u
78V_L
L7305
J0JJC0000011
L7306
J0JJC0000011
R7343
2.2
R7347
2.2
C7356
16V
1u
C7357
16V
1u
C3_5V
CA11
TERM
TO
PANEL DATA
DRIVER
R7339
47
R7349
47
R7351
1k
C7329
50V
100p
AB_DUC1
AB_DUB1
AB_DUA1
AB_DUC0
AB_DUB0
AB_DUA0
AB_ODEU1
CLK1N_2
AB_CLRU
PCU
LE11
CLKSP_2
DM
NC
VDD2
GND
ODE
VDD1
FDET1
FX
CLR
BLK
A1
A2
A3
A4
A5
A6
LEN
FS
SIDE
1
2
3
4
78V_R
78V_L
VDA_75V
C35
GND
NC
78V_R
78V_L
Vda 75V
TO
SS-BOARD
(SS35)

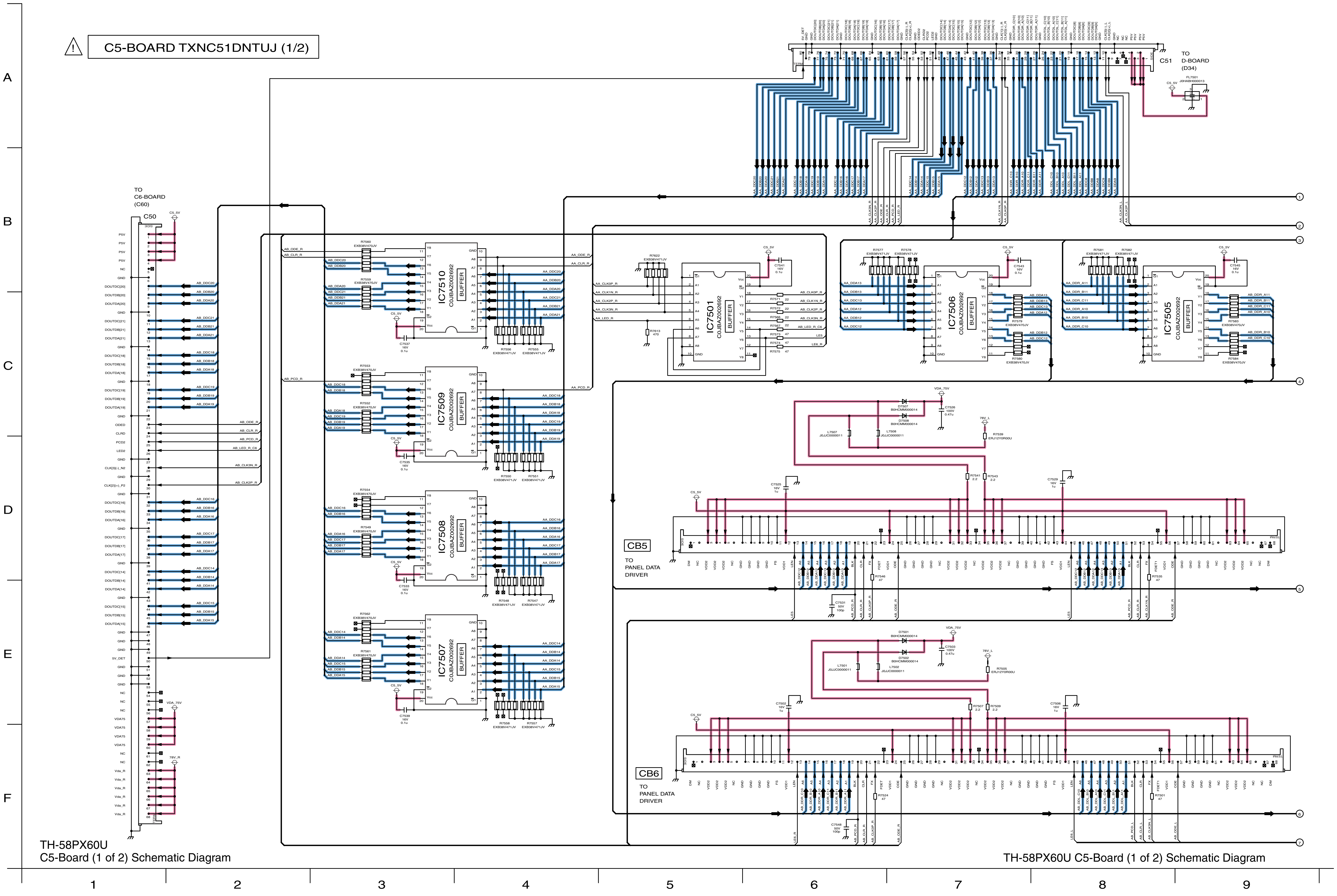
15.54. C4-Board (1 of 2) Schematic Diagram


C4-BOARD TXNC41DNTUJ (1/2)
TO C5-BOARD (C53)
C43
TO SS-BOARD (SS44)
C44
IC7401 C0JBAZ002692 BUFFER
IC7405 C0JBAZ002692 BUFFER
IC7402 C0JBAZ002692 BUFFER
IC7403 C0JBAZ002692 BUFFER
IC7404 C0JBAZ002692 BUFFER
IC7406 C0JBAZ002692 BUFFER
C4_5V
CLK0P_1
CLK1N_1
CLK0P_2
CLK1N_2
LE9
LE10
LE11
DSHL_BUF
DSLL_BUF
DMHL_BUF
DMLL_BUF
DMHR_BUF
URH_BUF
UEH_BUF
USL_BUF
USH_BUF
UML_BUF
UMH_BUF
NUEL_BUF
URL_BUF
DRV_SOS7
DRV_SOS8
AB_PCD1
AB_CLRD1
AB_ODED1
TH-58PX60U
C4-Board (1 of 2) Schematic Diagram
TH-58PX60U
C4-Board (1 of 2) Schematic Diagram
A
B
C
D
E
1
2
3
4
5
6
7
8

15.55. C4-Board (2 of 2) Schematic Diagram


C4-BOARD TXNC41DNTUJ (2/2)
78V_L
L7404 J0JJC0000011
L7403 J0JJC0000011
D7404 B0HCMM000014
D7403 B0HCMM000014
VDA_75V
C7415 100V 0.47u
R7425 2.2
R7423 2.2
C4_5V
C7420 16V 1u
C7419 16V 1u
CB9
TO PANEL DATA DRIVER
DM NC VDD2 VDD2 NC GND GND GND GND FS VDD1 LEN A6 A5 A4 A3 A2 A1 BLK CLR FX FDET VDD1 ODE GND GND GND GND NC VDD2 VDD2 NC VDD2 VDD2 NC GND GND GND GND FS VDD1 LEN A6 A5 A4 A3 A2 A1 BLK CLR FX FDET1 VDD1 ODE GND GND GND GND NC VDD2 VDD2 NC NC DM
SCS
TERM
AB_DDC4 AB_DDB4 AB_DDA4 AB_DDC5 AB_DDB5 AB_DDA5
C7412 50V 100p
R7426 47
R7421 47
LE9
AB_PCD1
AB_CLRD1
CLK0P_1
CLK1N_1
AB_ODED1
1
2
L7401 J0JJC0000011
L7402 J0JJC0000011
D7401 B0HCMM000014
D7402 B0HCMM000014
C7413 100V 0.47u
R7415 2.2
R7413 2.2
C7410 16V 1u
C7409 16V 1u
CB11
TO PANEL DATA DRIVER
AB_DDC0 AB_DDB0 AB_DDA0 AB_DDC1 AB_DDB1 AB_DDA1
C7437 50V 100p
R7416 47
R7411 47
R7437 1k
LE11
CLK0P_2
CLK1N_2
3
L7405 J0JJC0000011
L7406 J0JJC0000011
D7405 B0HCMM000014
D7406 B0HCMM000014
C7423 100V 0.47u
R7435 2.2
R7433 2.2
C7431 16V 1u
C7430 16V 1u
CB10
TO PANEL DATA DRIVER
AB_DDC2 AB_DDB2 AB_DDA2 AB_DDC3 AB_DDB3 AB_DDA3
C7429 50V 100p
R7436 47
R7431 47
LE10
4
ZA7401 K4CD01000013
ZA7402 K4CD01000013
ZA7403 K4CD01000013
ZA7404 K4CD01000013
ZA7405 K4CD01000013
78V_R
78V_L
VDA_75V
GND GND GND NC 78V_R 78V_R NC 78V_L 78V_L NC Vda 75V Vda 75V
C42
TO SS-BOARD (SS42)

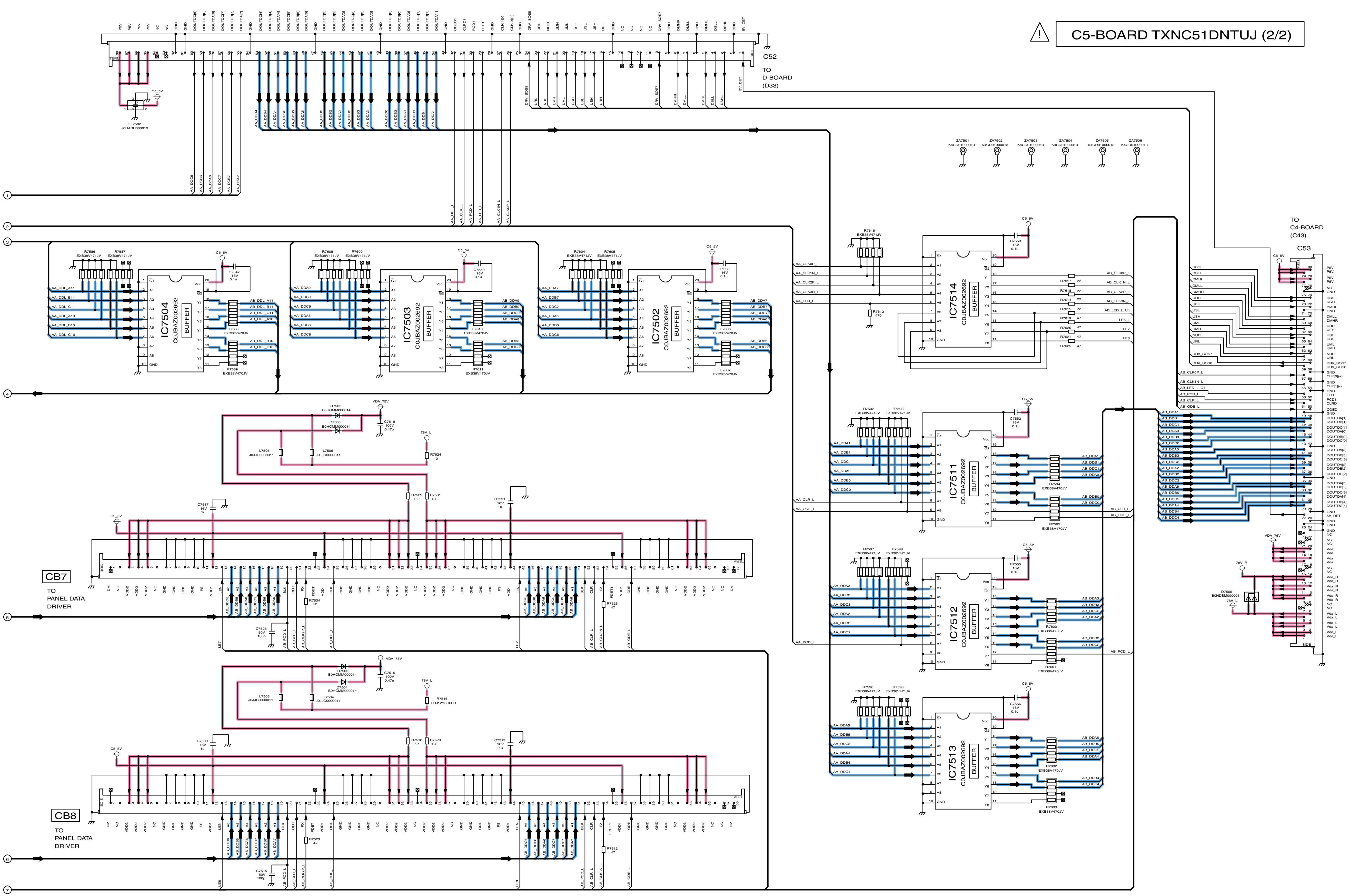
15.56. C5-Board (1 of 2) Schematic Diagram


C5-BOARD TXNC51DNTUJ (1/2)
TO C6-BOARD (C60)
C50
C51
TO D-BOARD (D34)
FL7501
IC7510
IC7509
IC7508
IC7507
IC7501
IC7506
IC7505
C0JBAZ002692
BUFFER
CB5
TO PANEL DATA DRIVER
CB6
TO PANEL DATA DRIVER
C5_5V
VDA_75V
78V_L
A
B
C
D
E
F
1
2
3
4
5
6
7
8
9

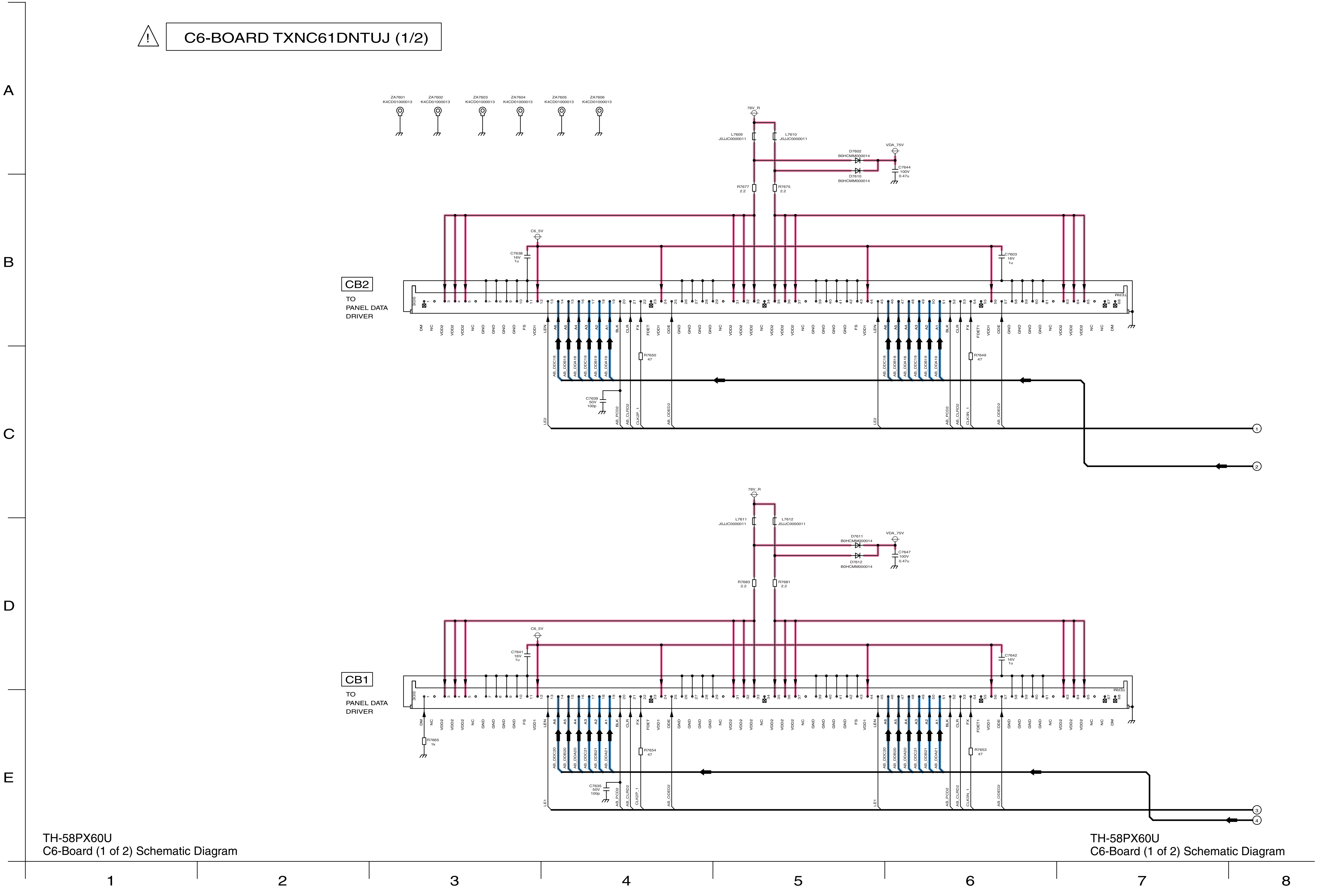
TH-58PX60U
C5-Board (1 of 2) Schematic Diagram

TH-58PX60U C5-Board (1 of 2) Schematic Diagram

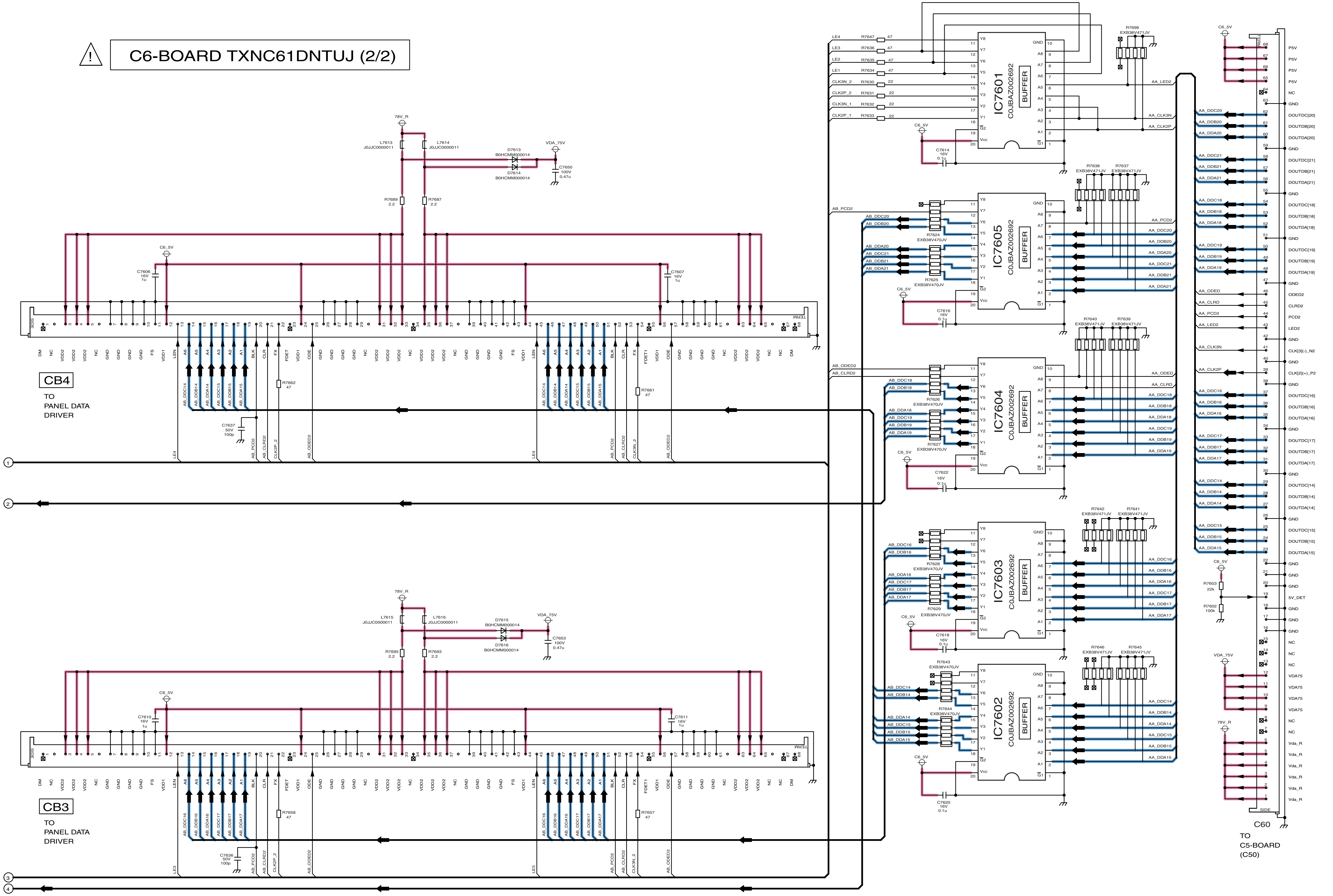
15.57. C5-Board (2 of 2) Schematic Diagram


C5-BOARD TXNC51DNTUJ (2/2)
C52
TO
D-BOARD
(D33)
C53
TO
C4-BOARD
(C43)
CB7
TO
PANEL DATA
DRIVER
CB8
TO
PANEL DATA
DRIVER
IC7504
C0JBAZ002692
BUFFER
IC7503
C0JBAZ002692
BUFFER
IC7502
C0JBAZ002692
BUFFER
IC7514
C0JBAZ002692
BUFFER
IC7511
C0JBAZ002692
BUFFER
IC7512
C0JBAZ002692
BUFFER
IC7513
C0JBAZ002692
BUFFER
FL7502
J0HABH000013
ZA7501
ZA7502
ZA7503
ZA7504
ZA7505
ZA7506
K4CD01000013
D7505
D7506
D7503
D7504
B0HCMM000014
D7509
B0HDSM000005
L7505
L7506
L7503
L7504
J0JJC0000011
VDA_75V
C5_5V
78V_L
78V_R
1
2
3
4
5
6
7

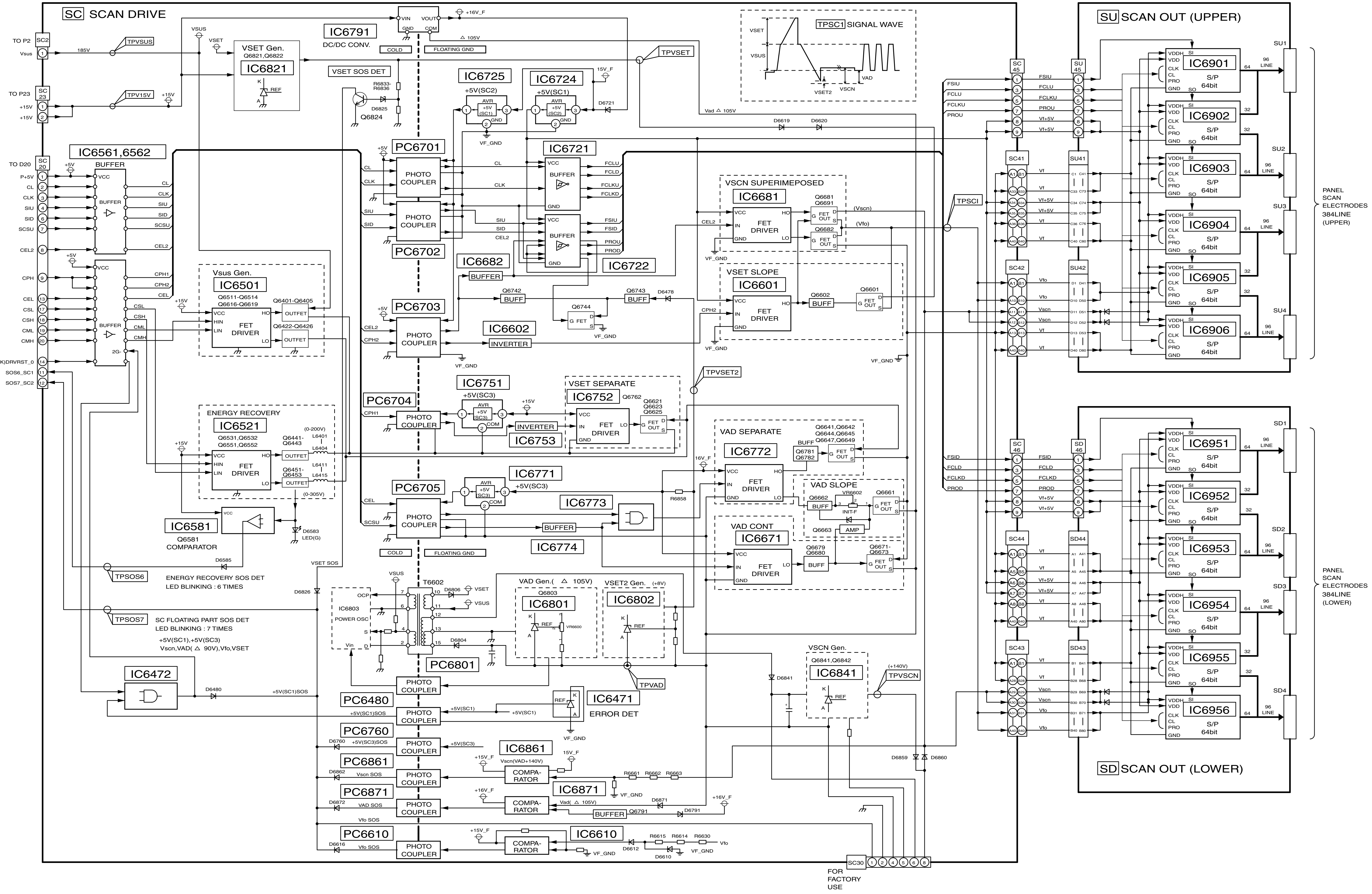
15.58. C6-Board (1 of 2) Schematic Diagram


C6-BOARD TXNC61DNTUJ (1/2)
A
B
C
D
E
1
2
3
4
5
6
7
8
ZA7601 K4CD01000013
ZA7602 K4CD01000013
ZA7603 K4CD01000013
ZA7604 K4CD01000013
ZA7605 K4CD01000013
ZA7606 K4CD01000013
78V_R
L7609 J0JJC0000011
L7610 J0JJC0000011
D7602 B0HCMM000014
D7610 B0HCMM000014
VDA_75V
C7644 100V 0.47u
R7677 2.2
R7675 2.2
C6_5V
C7638 16V 1u
C7603 16V 1u
CB2
TO PANEL DATA DRIVER
SIDE
TERM
DM
NC
VDD2
GND
FS
VDD1
LEN
A6
A5
A4
A3
A2
A1
BLK
CLR
FX
FDET
FDET1
ODE
AB_DDC18
AB_DDB18
AB_DDA18
AB_DDC19
AB_DDB19
AB_DDA19
R7650 47
R7649 47
C7639 50V 100p
LE2
AB_PCD2
AB_CLRD2
CLK2P_1
CLK3N_1
AB_ODED2
①
②
78V_R
L7611 J0JJC0000011
L7612 J0JJC0000011
D7611 B0HCMM000014
D7612 B0HCMM000014
VDA_75V
C7647 100V 0.47u
R7683 2.2
R7681 2.2
C6_5V
C7641 16V 1u
C7642 16V 1u
CB1
TO PANEL DATA DRIVER
R7665 1k
AB_DDC20
AB_DDB20
AB_DDA20
AB_DDC21
AB_DDB21
AB_DDA21
R7654 47
R7653 47
C7635 50V 100p
LE1
③
④

15.59. C6-Board (2 of 2) Schematic Diagram

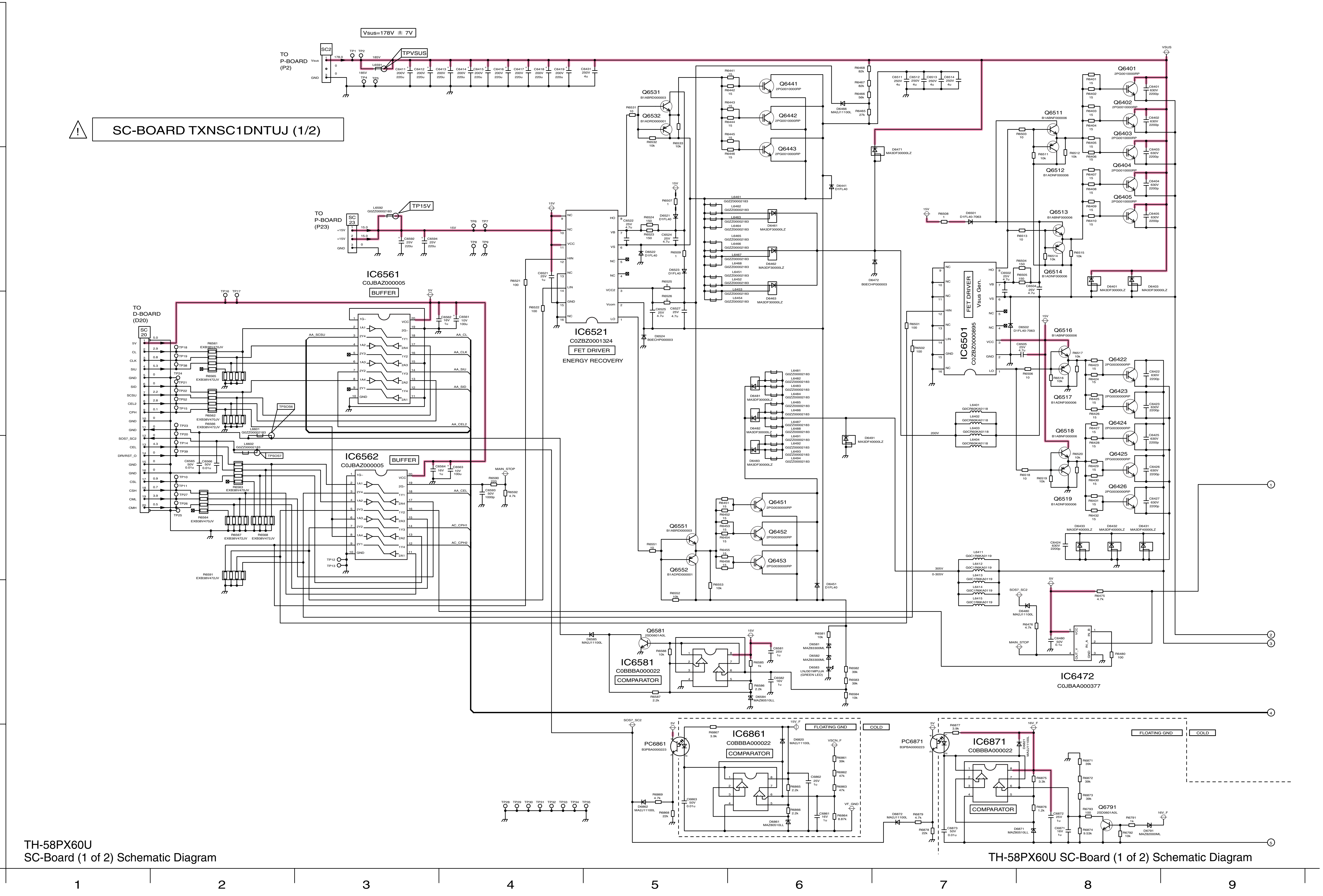

C6-BOARD TXNC61DNTUJ (2/2)
CB4
TO
PANEL DATA
DRIVER
CB3
TO
PANEL DATA
DRIVER
IC7601
C0JBAZ002692
BUFFER
IC7605
C0JBAZ002692
BUFFER
IC7604
C0JBAZ002692
BUFFER
IC7603
C0JBAZ002692
BUFFER
IC7602
C0JBAZ002692
BUFFER
C60
TO
C5-BOARD
(C50)
78V_R
VDA_75V
C6_5V
L7613
J0JJC0000011
L7614
J0JJC0000011
D7613
B0HCMM000014
D7614
B0HCMM000014
C7650
100V
0.47u
L7615
J0JJC0000011
L7616
J0JJC0000011
D7615
B0HCMM000014
D7616
B0HCMM000014
C7653
100V
0.47u
R7689
2.2
R7687
2.2
R7695
2.2
R7693
2.2
C7606
16V
1u
C7607
16V
1u
C7610
16V
1u
C7611
16V
1u
R7662
47
R7661
47
R7658
47
R7657
47
C7637
50V
100p
C7636
50V
100p
R7603
22k
R7602
100k
1
2
3
4

15.60. SC, SU and SD-Board Block Diagram


SC SCAN DRIVE
SU SCAN OUT (UPPER)
SD SCAN OUT (LOWER)
TO P2
Vsus
SC2
TPVSUS
185V
TO P23
SC23
TPV15V
+15V
TO D20
SC20
P+5V
CL
CLK
SIU
SID
SCSU
CEL2
CPH
CEL
CSL
CSH
CML
CMH
(CBK)DRVRST_0
SOS6_SC1
SOS7_SC2
IC6561,6562
BUFFER
IC6791
DC/DC CONV.
VIN
VOUT
GND
COM
+16V_F
105V
COLD
FLOATING GND
VSET Gen.
Q6821,Q6822
IC6821
VSET SOS DET
R6833-R6836
D6825
Q6824
IC6725
+5V(SC2)
IC6724
+5V(SC1)
AVR
D6721
15V_F
VF_GND
TPVSET
TPSC1 SIGNAL WAVE
VSET
VSUS
VSET2
VSCN
VAD
Vad 105V
D6619
D6620
PC6701
PHOTO COUPLER
PC6702
IC6721
FCLU
FCLD
FCLKU
FCLKD
FSIU
FSID
PROU
PROD
IC6722
IC6682
BUFF
Q6742
Q6743
D6478
Q6744
FET
VSCN SUPERIMEPOSED
IC6681
Q6681
Q6691
Q6682
FET DRIVER
FET OUT
(Vscn)
(Vfo)
TPSCI
VSET SLOPE
IC6601
Q6602
Q6601
Vsus Gen.
IC6501
Q6511-Q6514
Q6616-Q6619
Q6401-Q6405
Q6422-Q6426
OUTFET
PC6703
IC6602
INVERTER
TPVSET2
IC6751
+5V(SC3)
VSET SEPARATE
IC6752
Q6762
Q6621
Q6623
Q6625
IC6753
PC6704
ENERGY RECOVERY
IC6521
Q6531,Q6532
Q6551,Q6552
Q6441-Q6443
Q6451-Q6453
(0-200V)
(0-305V)
L6401
L6404
L6411
L6415
VAD SEPARATE
Q6641,Q6642
Q6644,Q6645
Q6647,Q6649
IC6772
Q6781
Q6782
16V_F
IC6771
PC6705
IC6773
R6858
VAD SLOPE
Q6662
VR6602
Q6661
INIT-F
Q6663
AMP
IC6581
Q6581
COMPARATOR
D6583
LED(G)
IC6774
VAD CONT
IC6671
Q6679
Q6680
Q6671-Q6673
D6585
TPSOS6
ENERGY RECOVERY SOS DET
LED BLINKING : 6 TIMES
VSET SOS
D6826
TPSOS7
SC FLOATING PART SOS DET
LED BLINKING : 7 TIMES
+5V(SC1),+5V(SC3)
Vscn,VAD(90V),Vfo,VSET
IC6803
POWER OSC
T6602
D6806
D6804
VAD Gen.(105V)
Q6803
IC6801
VR6600
VSET2 Gen. (+8V)
IC6802
PC6801
TPVAD
VSCN Gen.
Q6841,Q6842
IC6841
(+140V)
TPVSCN
D6841
IC6472
D6480
+5V(SC1)SOS
PC6480
IC6471
ERROR DET
PC6760
+5V(SC3)SOS
D6760
IC6861
PC6861
Vscn SOS
D6862
COMPA-RATOR
Vscn(VAD+140V)
R6661
R6662
R6663
IC6871
PC6871
VAD SOS
D6872
Vad(105V)
Q6791
D6871
D6791
Vfo SOS
PC6610
D6616
IC6610
D6612
D6610
R6615
R6614
R6630
Vfo
D6859
D6860
SC30
FOR FACTORY USE
SC45
SU45
SC41
SU41
SC42
SU42
SC46
SD46
SC44
SD44
SC43
SD43
Vf
Vf+5V
Vfo
Vscn
IC6901
IC6902
IC6903
IC6904
IC6905
IC6906
IC6951
IC6952
IC6953
IC6954
IC6955
IC6956
VDDH
VDD
CLK
CL
PRO
GND
SI
SO
S/P
64bit
64
32
96 LINE
SU1
SU2
SU3
SU4
SD1
SD2
SD3
SD4
PANEL SCAN ELECTRODES 384LINE (UPPER)
PANEL SCAN ELECTRODES 384LINE (LOWER)

]

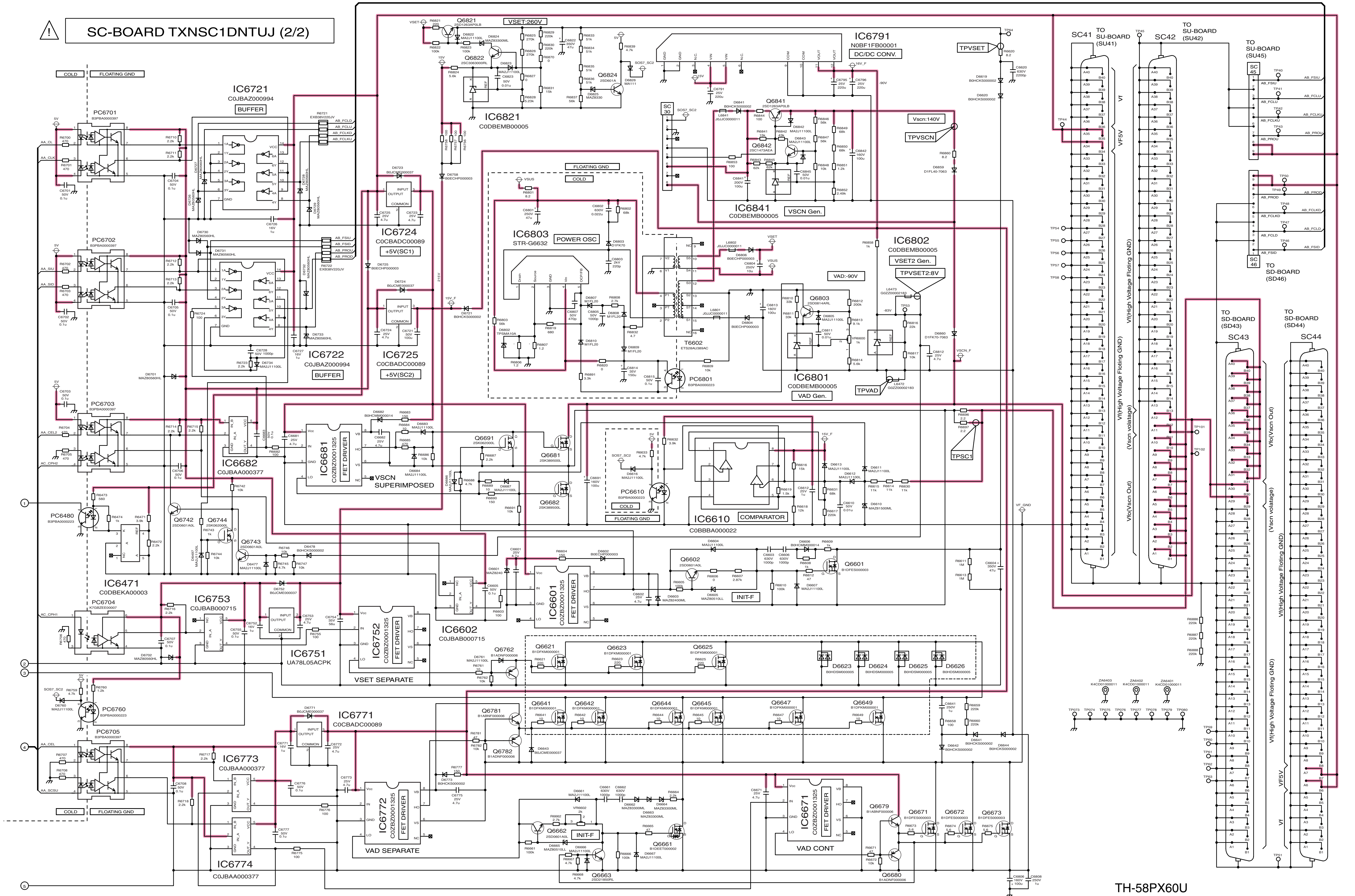
15.61. SC-Board (1 of 2) Schematic Diagram


SC-BOARD TXNSC1DNTUJ (1/2)
Vsus=178V ± 7V
TPVSUS
TO P-BOARD (P2)
TO P-BOARD (P23)
TP15V
TO D-BOARD (D20)
IC6561
C0JBAZ000005
BUFFER
IC6562
C0JBAZ000005
BUFFER
IC6521
C0ZBZ0001324
FET DRIVER
ENERGY RECOVERY
IC6501
C0ZBZ0000895
FET DRIVER
Vsus Gen.
IC6581
C0BBBA000022
COMPARATOR
IC6472
C0JBAA000377
IC6861
C0BBBA000022
COMPARATOR
IC6871
C0BBBA000022
COMPARATOR
PC6861
PC6871
FLOATING GND
COLD
Q6401
Q6402
Q6403
Q6404
Q6405
Q6441
Q6442
Q6443
Q6451
Q6452
Q6453
Q6422
Q6423
Q6424
Q6425
Q6426
Q6511
Q6512
Q6513
Q6514
Q6516
Q6517
Q6518
Q6519
Q6531
Q6532
Q6551
Q6552
Q6581
Q6791
VSUS
MAIN_STOP
SOS7_SC2
A
B
C
D
E
F
1
2
3
4
5
6
7
8
9

TH-58PX60U
SC-Board (1 of 2) Schematic Diagram

TH-58PX60U SC-Board (1 of 2) Schematic Diagram

15.62. SC-Board (2 of 2) Schematic Diagram

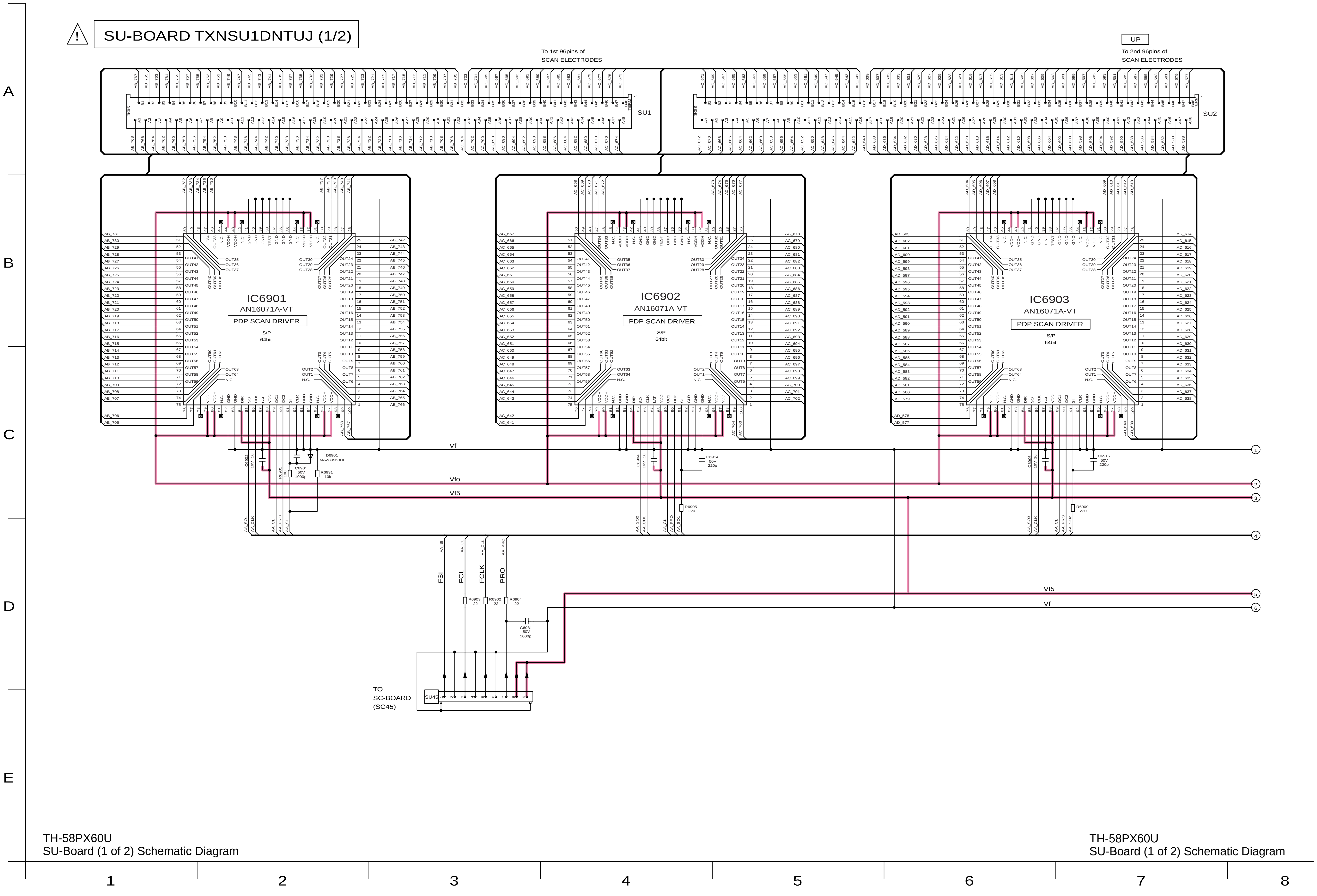

SC-BOARD TXNSC1DNTUJ (2/2)
COLD
FLOATING GND
PC6701
PC6702
PC6703
PC6480
PC6704
PC6705
PC6760
IC6721
C0JBAZ000994
BUFFER
IC6722
C0JBAZ000994
BUFFER
IC6724
C0CBADC00089
+5V(SC1)
IC6725
C0CBADC00089
+5V(SC2)
IC6821
C0DBEMB00005
VSET:260V
Q6821
Q6822
Q6824
IC6803
STR-G6632
POWER OSC
T6602
PC6801
IC6791
N0BF1FB00001
DC/DC CONV.
IC6841
C0DBEMB00005
VSCN Gen.
Vscn:140V
TPVSCN
TPVSET
IC6802
C0DBEMB00005
VSET2 Gen.
TPVSET2:8V
VAD:-90V
IC6801
C0DBEMB00005
VAD Gen.
TPVAD
TPSC1
IC6682
C0JBAA000377
IC6681
C0ZBZ0001325
FET DRIVER
VSCN SUPERIMPOSED
Q6691
Q6681
Q6682
Q6742
Q6744
Q6743
PC6610
IC6610
C0BBBA000022
COMPARATOR
Q6602
Q6601
INIT-F
IC6471
C0DBEKA00003
IC6753
C0JBAB000715
IC6751
UA78L05ACPK
IC6752
C0ZBZ0001325
FET DRIVER
VSET SEPARATE
IC6602
C0JBAB000715
IC6601
C0ZBZ0001325
FET DRIVER
Q6762
Q6621
Q6623
Q6625
D6623
D6624
D6625
D6626
Q6781
Q6782
Q6641
Q6642
Q6644
Q6645
Q6647
Q6649
IC6771
C0CBADC00089
IC6773
C0JBAA000377
IC6774
C0JBAA000377
IC6772
C0ZBZ0001325
FET DRIVER
VAD SEPARATE
Q6662
INIT-F
Q6661
Q6663
IC6671
C0ZBZ0001325
FET DRIVER
VAD CONT
Q6679
Q6671
Q6672
Q6673
Q6680
SC41
TO SU-BOARD (SU41)
SC42
TO SU-BOARD (SU42)
TO SU-BOARD (SU45)
SC45
SC46
TO SD-BOARD (SD46)
TO SD-BOARD (SD43)
SC43
TO SD-BOARD (SD44)
SC44
SC30
VI
VF5V
Vf(High Voltage Floating GND)
(Vscn voltage)
Vfo(Vscn Out)
Vfo(Vscn Out)
(Vscn voltage)
Vf(High Voltage Floating GND)
VF5V
VI
1
2
3
4
5

TH-58PX60U SC-Board (2 of 2) Schematic Diagram

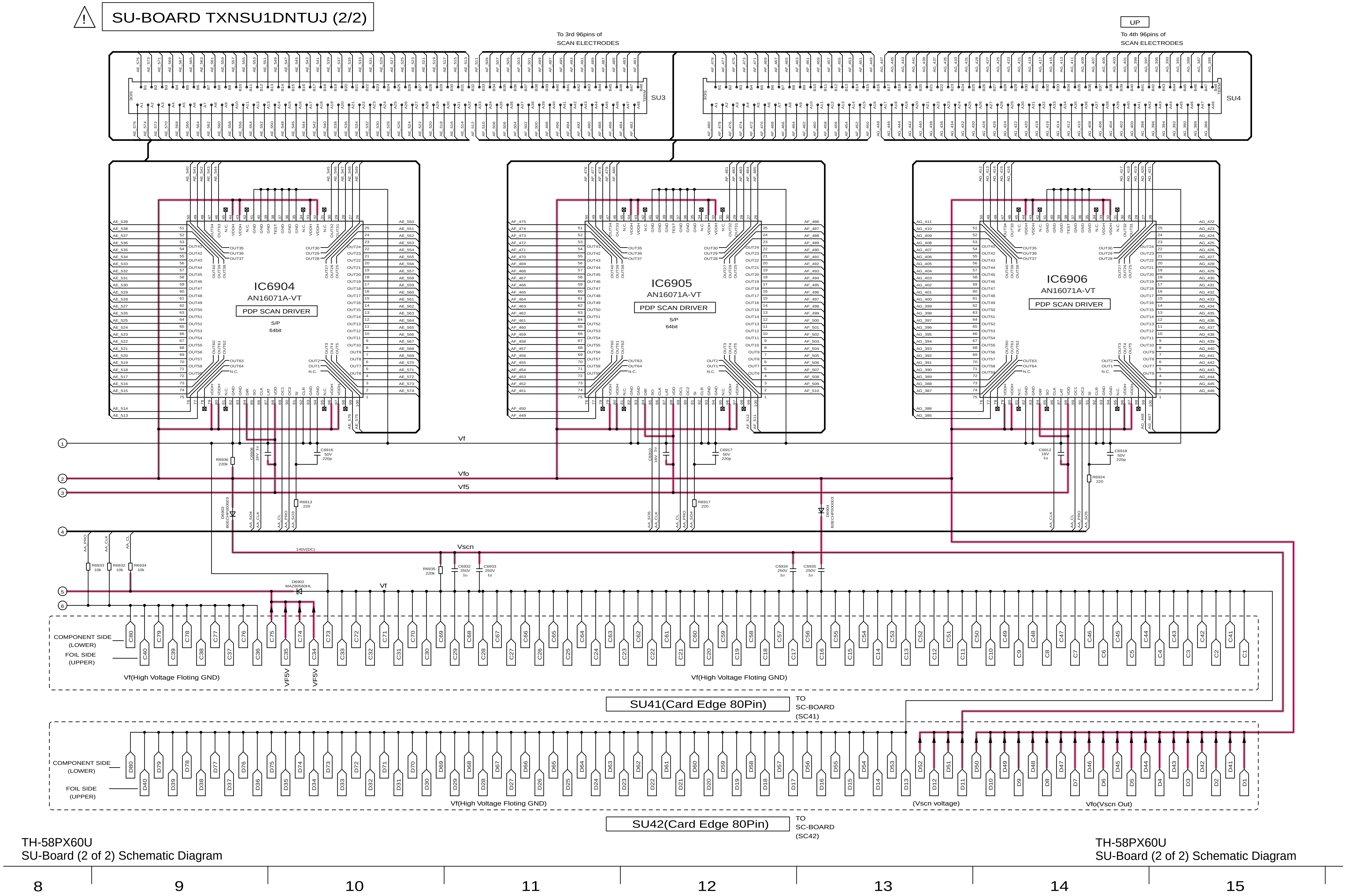
TH-58PX60U
SC-Board (2 of 2) Schematic Diagram

10 11 12 13 14 15 16 17 18

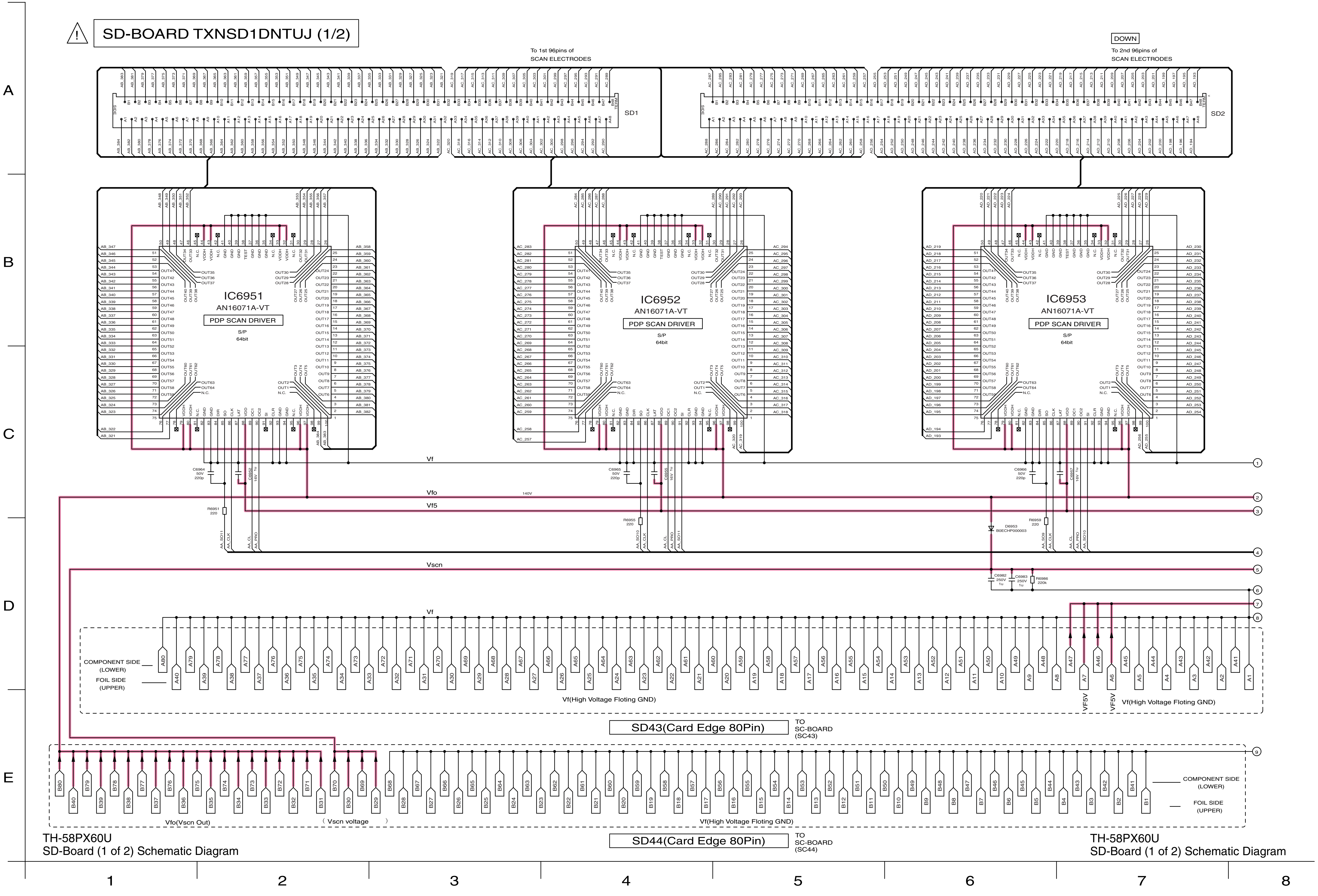
15.63. SU-Board (1 of 2) Schematic Diagram


SU-BOARD TXNSU1DNTUJ (1/2)
To 1st 96pins of SCAN ELECTRODES
UP
To 2nd 96pins of SCAN ELECTRODES
SU1
SU2
IC6901
AN16071A-VT
PDP SCAN DRIVER
S/P
64bit
IC6902
AN16071A-VT
PDP SCAN DRIVER
S/P
64bit
IC6903
AN16071A-VT
PDP SCAN DRIVER
S/P
64bit
Vf
Vfo
Vf5
D6901
MAZ80560HL
C6901
50V
1000p
R6931
10k
C6902
16V 1u
R6901
C6904
16V 1u
C6914
50V
220p
R6905
220
C6906
16V 1u
C6915
50V
220p
R6909
220
AA_SO1
AA_CLK
AA_CL
AA_PRO
AA_SI
AA_SO2
AA_SO3
FSI
FCL
FCLK
PRO
R6903
22
R6902
22
R6904
22
C6931
50V
1000p
Vf5
Vf
TO
SC-BOARD
(SC45)
SU45
A
B
C
D
E
1
2
3
4
5
6
7
8

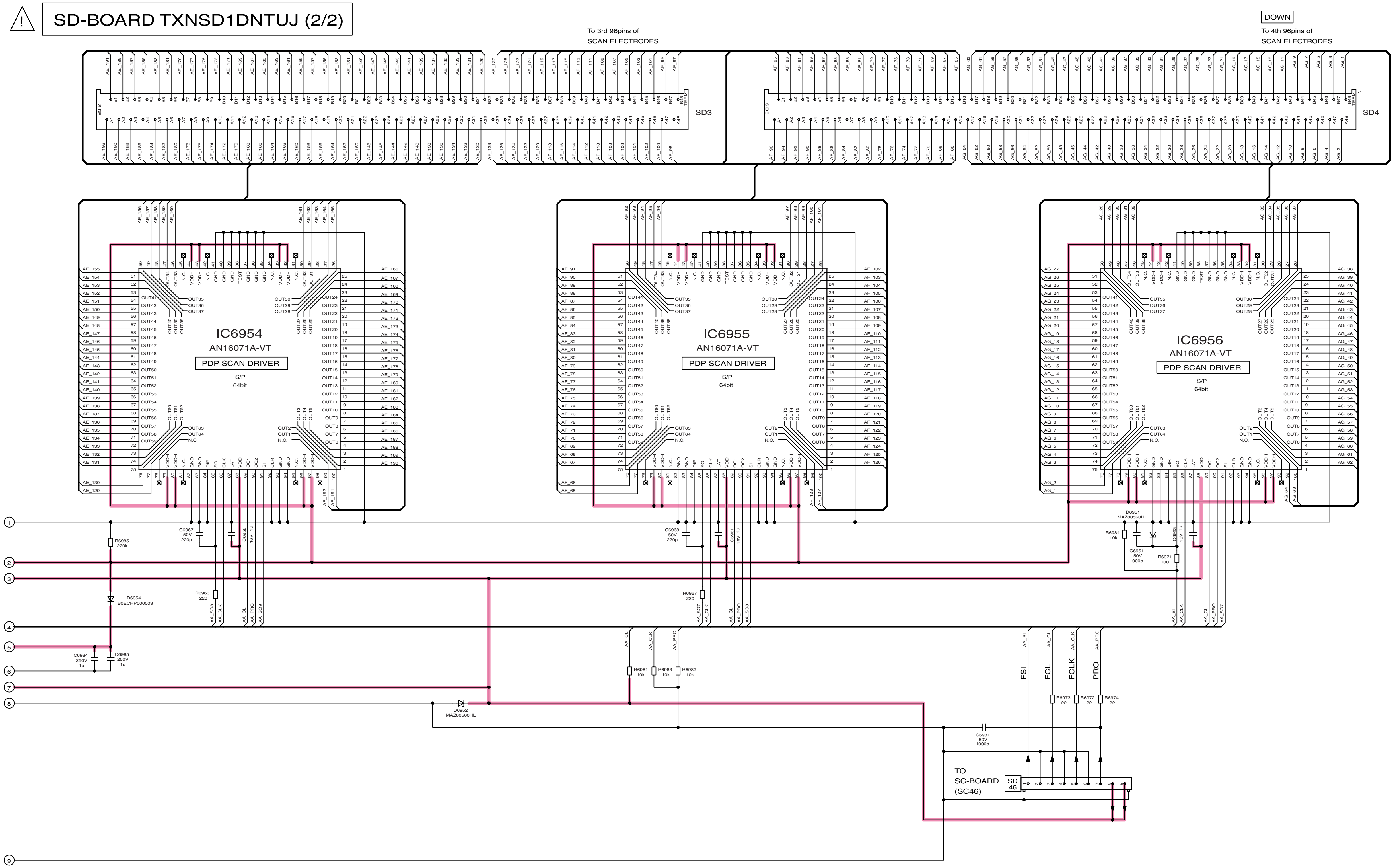
15.64. SU-Board (2 of 2) Schematic Diagram


SU-BOARD TXNSU1DNTUJ (2/2)
To 3rd 96pins of
SCAN ELECTRODES
UP
To 4th 96pins of
SCAN ELECTRODES
SU3
SU4
IC6904
AN16071A-VT
PDP SCAN DRIVER
S/P
64bit
IC6905
AN16071A-VT
PDP SCAN DRIVER
S/P
64bit
IC6906
AN16071A-VT
PDP SCAN DRIVER
Vf
Vfo
Vf5
Vscn
140V(DC)
C6916
50V
220p
C6917
50V
220p
C6918
50V
220p
C6908
16V
1u
C6910
16V
1u
C6912
16V
1u
R6936
220k
R6913
220
R6917
220
R6924
220
D6903
B0ECHP000003
D6904
B0ECHP000003
R6933
10k
R6932
10k
R6934
10k
AA_PRO
AA_CLK
AA_CL
D6902
MAZ80560HL
R6935
220k
C6932
250V
1u
C6933
250V
1u
C6934
250V
1u
C6935
250V
1u
COMPONENT SIDE
(LOWER)
FOIL SIDE
(UPPER)
Vf(High Voltage Floting GND)
VF5V
SU41(Card Edge 80Pin)
TO
SC-BOARD
(SC41)
SU42(Card Edge 80Pin)
TO
SC-BOARD
(SC42)
(Vscn voltage)
Vfo(Vscn Out)
TH-58PX60U
SU-Board (2 of 2) Schematic Diagram
TH-58PX60U
SU-Board (2 of 2) Schematic Diagram
8
9
10
11
12
13
14
15

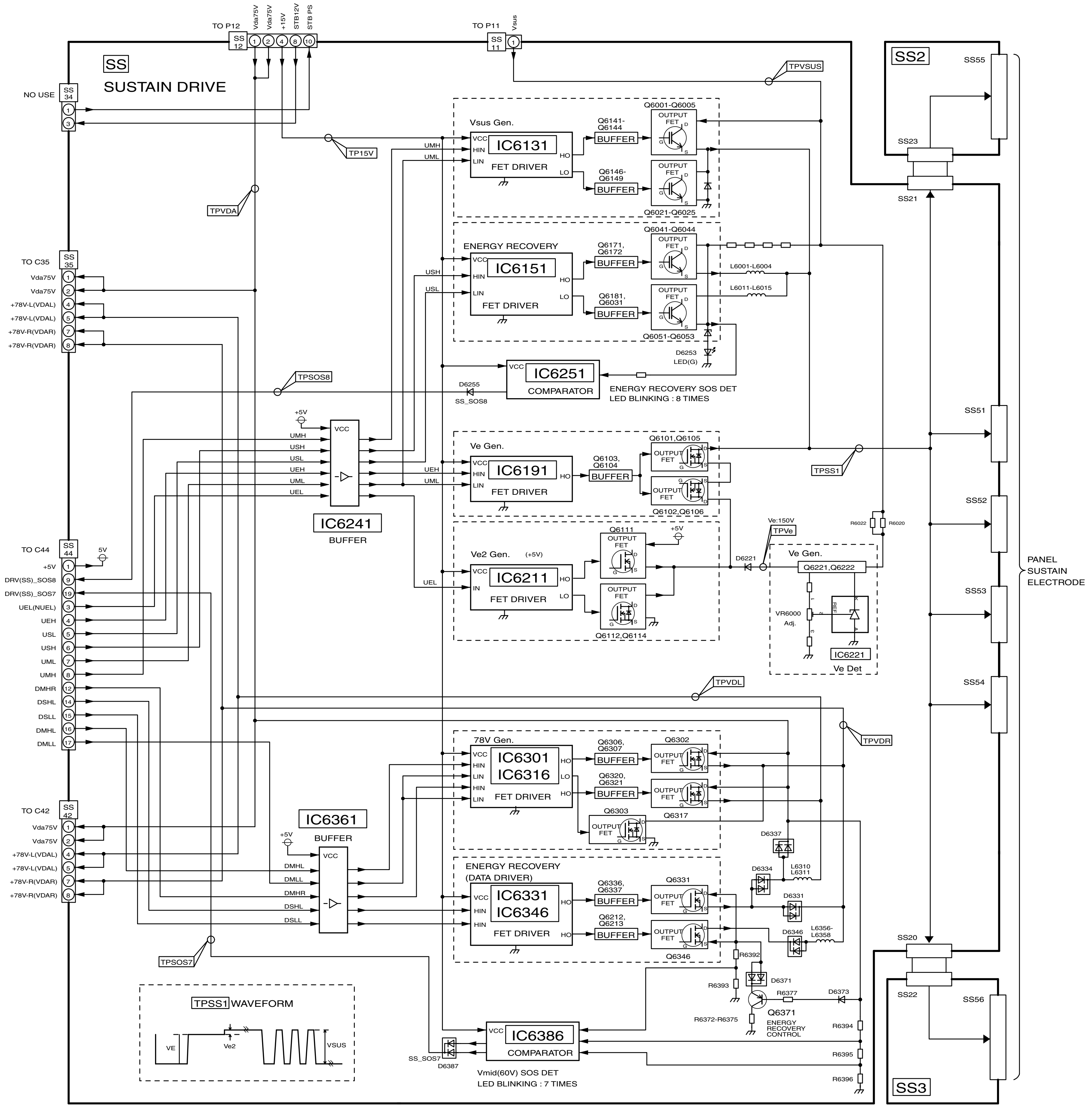
15.65. SD-Board (1 of 2) Schematic Diagram


SD-BOARD TXNSD1DNTUJ (1/2)
To 1st 96pins of
SCAN ELECTRODES
DOWN
To 2nd 96pins of
SCAN ELECTRODES
SD1
SD2
IC6951
AN16071A-VT
PDP SCAN DRIVER
S/P
64bit
IC6952
AN16071A-VT
PDP SCAN DRIVER
S/P
64bit
IC6953
AN16071A-VT
PDP SCAN DRIVER
S/P
64bit
C6964 50V 220p
C6962 16V 1u
R6951 220
C6965 50V 220p
C6955 16V 1u
R6955 220
C6966 50V 220p
C6957 16V 1u
R6959 220
D6953 B0ECHP000003
C6982 250V 1u
C6983 250V 1u
R6986 220k
Vf
Vfo
140V
Vf5
Vscn
AA_SD11
AA_CLK
AA_CL
AA_PRO
AA_SD10
AA_SD9
COMPONENT SIDE (LOWER)
FOIL SIDE (UPPER)
Vf(High Voltage Floting GND)
VF5V
SD43(Card Edge 80Pin)
TO SC-BOARD (SC43)
Vfo(Vscn Out)
(Vscn voltage)
SD44(Card Edge 80Pin)
TO SC-BOARD (SC44)
TH-58PX60U
SD-Board (1 of 2) Schematic Diagram
A
B
C
D
E
1
2
3
4
5
6
7
8

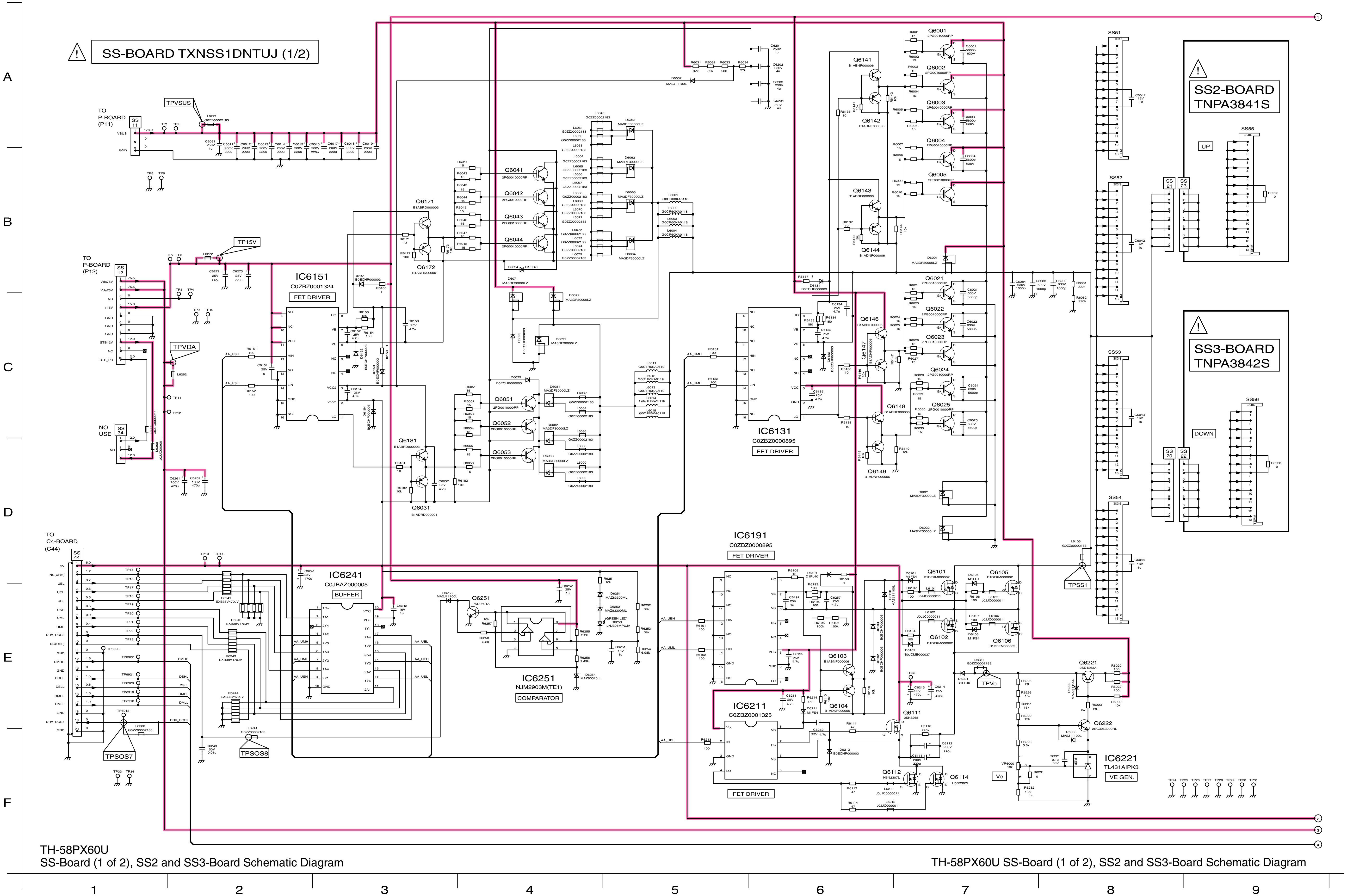
15.66. SD-Board (2 of 2) Schematic Diagram


SD-BOARD TXNSD1DNTUJ (2/2)
To 3rd 96pins of
SCAN ELECTRODES
DOWN
To 4th 96pins of
SCAN ELECTRODES
SD3
SD4
IC6954
AN16071A-VT
PDP SCAN DRIVER
S/P
64bit
IC6955
AN16071A-VT
PDP SCAN DRIVER
S/P
64bit
IC6956
AN16071A-VT
PDP SCAN DRIVER
S/P
64bit
C6967 50V 220p
C6968 50V 220p
R6985 220k
D6954 B0ECHP000003
R6963 220
R6967 220
C6984 250V 1u
C6985 250V 1u
D6951 MAZ80560HL
R6984 10k
C6951 50V 1000p
R6971 100
D6952 MAZ80560HL
R6981 10k
R6983 10k
R6982 10k
FSI
FCL
FCLK
PRO
R6973 22
R6972 22
R6974 22
C6981 50V 1000p
TO
SC-BOARD
(SC46)
SD46
1
2
3
4
5
6
7
8
9

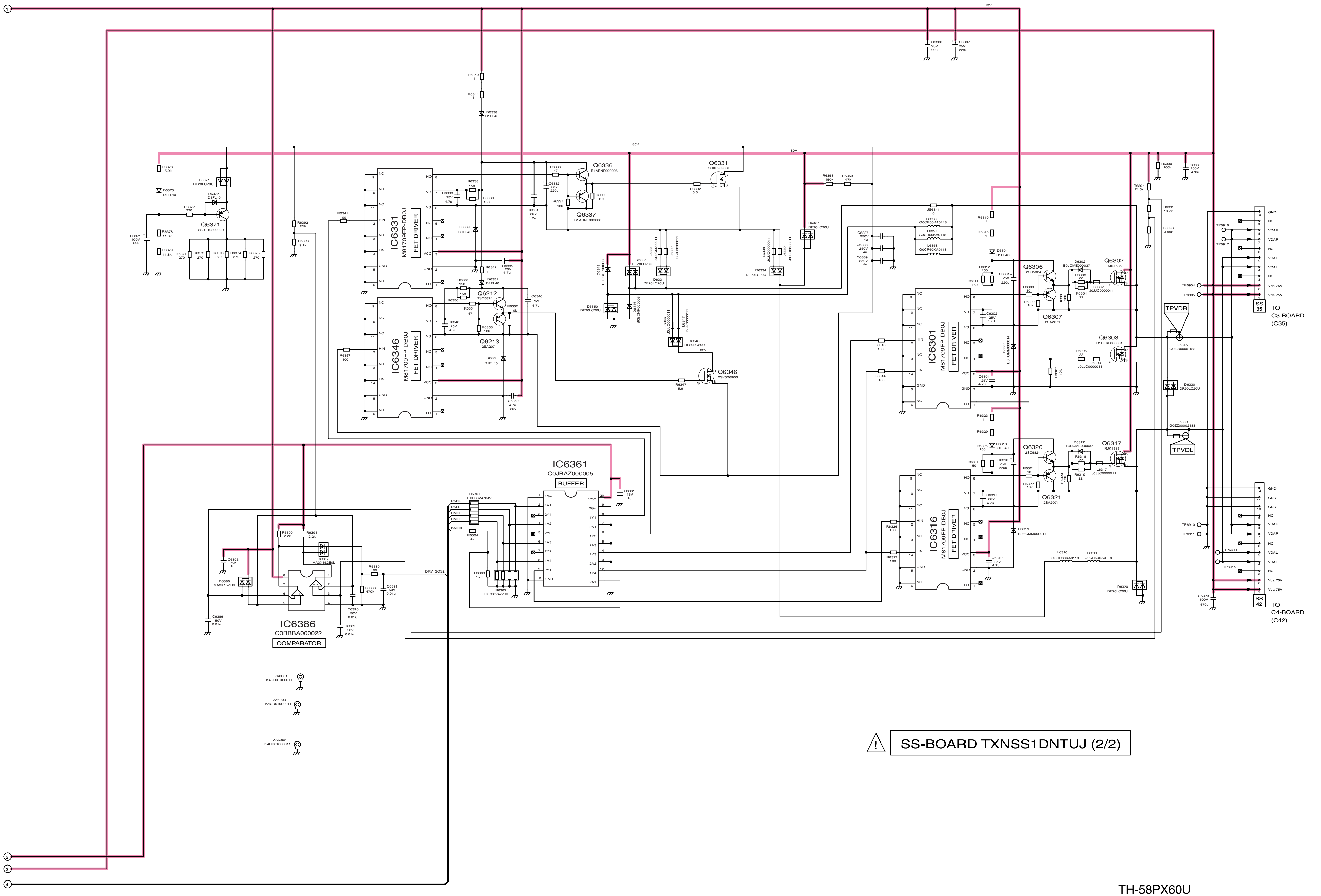
15.67. SS, SS2 and SS3-Board Block Diagram


TO P12
SS12
Vda75V
Vda75V
+15V
STB12V
STB PS
TO P11
SS11
Vsus
SS
SUSTAIN DRIVE
NO USE
SS34
TPVSUS
TP15V
TPVDA
Vsus Gen.
IC6131
FET DRIVER
VCC
HIN
LIN
HO
LO
UMH
UML
Q6141-Q6144
BUFFER
Q6146-Q6149
OUTPUT FET
Q6001-Q6005
Q6021-Q6025
ENERGY RECOVERY
IC6151
USH
USL
Q6171, Q6172
Q6181, Q6031
Q6041-Q6044
Q6051-Q6053
L6001-L6004
L6011-L6015
D6253
LED(G)
IC6251
COMPARATOR
D6255
SS_SOS8
TPSOS8
ENERGY RECOVERY SOS DET
LED BLINKING : 8 TIMES
TO C35
SS35
Vda75V
+78V-L(VDAL)
+78V-R(VDAR)
+5V
VCC
UMH
USH
USL
UEH
UML
UEL
IC6241
BUFFER
Ve Gen.
IC6191
Q6103, Q6104
Q6101,Q6105
Q6102,Q6106
UEH
TPSS1
Ve2 Gen.
(+5V)
IC6211
IN
UEL
Q6111
Q6112,Q6114
Ve:150V
TPVe
D6221
R6022
R6020
Q6221,Q6222
VR6000
Adj.
IC6221
Ve Det
TO C44
SS44
5V
+5V
DRV(SS)_SOS8
DRV(SS)_SOS7
UEL(NUEL)
UEH
USL
USH
UML
UMH
DMHR
DSHL
DSLL
DMHL
DMLL
TPVDL
TPVDR
78V Gen.
IC6301
IC6316
Q6306, Q6307
Q6320, Q6321
Q6302
Q6317
Q6303
TO C42
SS42
IC6361
BUFFER
DMHL
DMLL
DMHR
DSHL
DSLL
ENERGY RECOVERY
(DATA DRIVER)
IC6331
IC6346
Q6336, Q6337
Q6212, Q6213
Q6331
Q6346
D6337
D6334
L6310
L6311
D6331
D6346
L6356-L6358
R6392
R6393
D6371
R6377
D6373
Q6371
R6372-R6375
ENERGY RECOVERY CONTROL
R6394
R6395
R6396
TPSOS7
TPSS1 WAVEFORM
VE
Ve2
VSUS
IC6386
COMPARATOR
SS_SOS7
D6387
Vmid(60V) SOS DET
LED BLINKING : 7 TIMES
SS2
SS55
SS23
SS21
SS51
SS52
SS53
SS54
PANEL SUSTAIN ELECTRODE
SS20
SS22
SS56
SS3

15.68. SS-Board (1 of 2), SS2 and SS3-Board Schematic Diagram


SS-BOARD TXNSS1DNTUJ (1/2)
SS2-BOARD
TNPA3841S
SS3-BOARD
TNPA3842S
TO P-BOARD (P11)
TO P-BOARD (P12)
TO C4-BOARD (C44)
TPVSUS
TP15V
TPVDA
TPSOS7
TPSOS8
TPSS1
TPVe
NO USE
IC6151
C0ZBZ0001324
FET DRIVER
IC6131
C0ZBZ0000895
FET DRIVER
IC6191
C0ZBZ0000895
FET DRIVER
IC6211
C0ZBZ0001325
FET DRIVER
IC6241
C0JBAZ000005
BUFFER
IC6251
NJM2903M(TE1)
COMPARATOR
IC6221
TL431AIPK3
VE GEN.
Q6001
Q6002
Q6003
Q6004
Q6005
Q6021
Q6022
Q6023
Q6024
Q6025
Q6031
Q6041
Q6042
Q6043
Q6044
Q6051
Q6052
Q6053
Q6101
Q6102
Q6103
Q6104
Q6105
Q6106
Q6111
Q6112
Q6114
Q6141
Q6142
Q6143
Q6144
Q6146
Q6147
Q6148
Q6149
Q6171
Q6172
Q6181
Q6221
Q6222
Q6251
SS51
SS52
SS53
SS54
SS55
SS56
UP
DOWN
A
B
C
D
E
F
1
2
3
4
5
6
7
8
9

15.69. SS-Board (2 of 2) Schematic Diagram

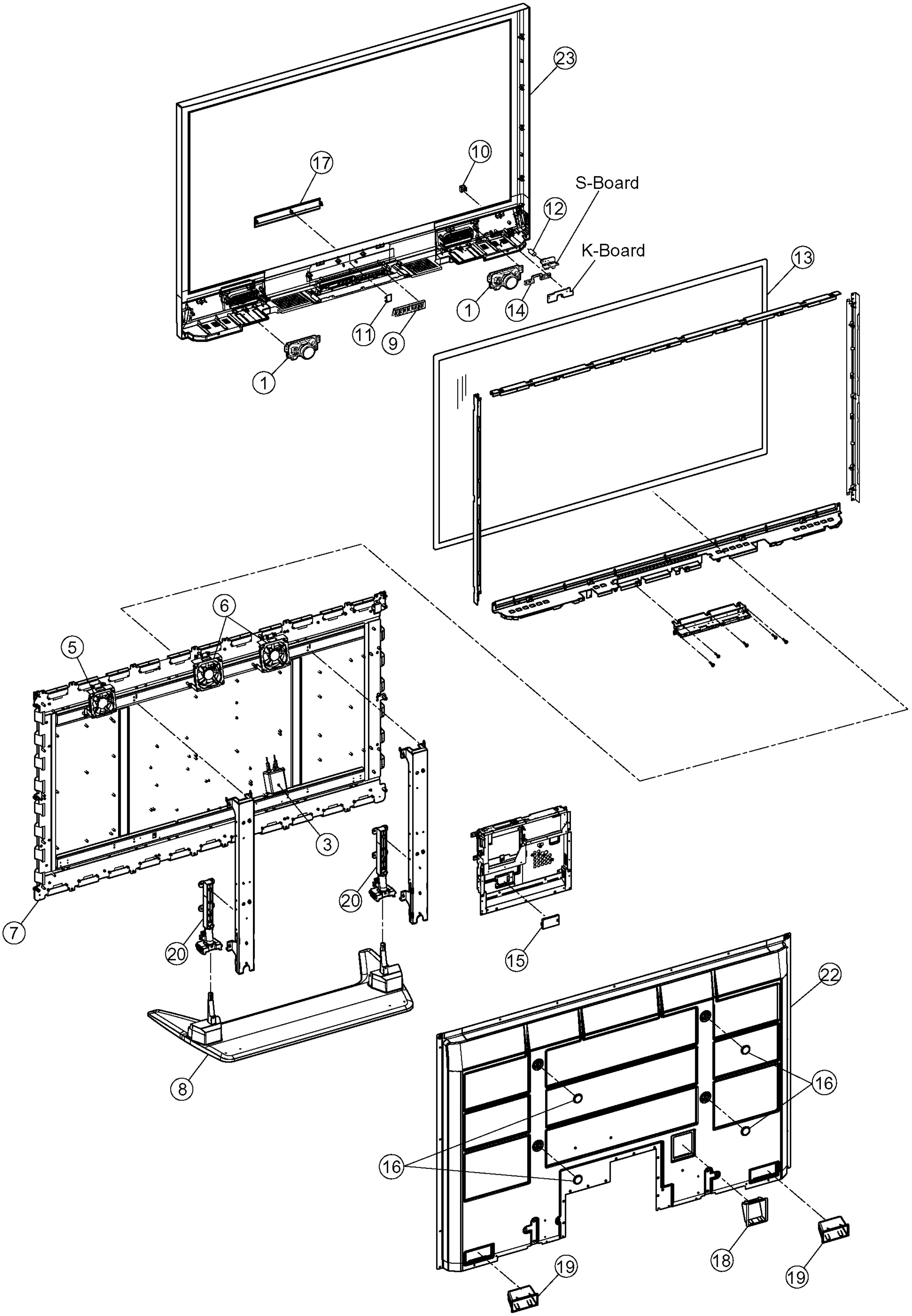

1
2
3
4
15V
85V
80V
IC6331
M81709FP-DB0J
FET DRIVER
IC6346
M81709FP-DB0J
FET DRIVER
IC6301
M81709FP-DB0J
FET DRIVER
IC6316
M81709FP-DB0J
FET DRIVER
IC6361
C0JBAZ000005
BUFFER
IC6386
C0BBBA000022
COMPARATOR
Q6371
2SB1193000LB
Q6336
B1ABNF000006
Q6337
B1ADNF000006
Q6331
2SK3269000L
Q6346
2SK3269000L
Q6212
2SC5824
Q6213
2SA2071
Q6306
2SC5824
Q6307
2SA2071
Q6302
RJK1535
Q6303
B1DFKL000001
Q6320
2SC5824
Q6321
2SA2071
Q6317
RJK1535
R6361
EXB38V470JV
R6362
EXB38V472JV
R6363
4.7k
R6364
47
C6361
16V
1u
DSHL
DSLL
DMHL
DMLL
DMHR
DRV_SOS2
1G~
1A1
2Y4
1A2
2Y3
1A3
2Y2
1A4
2Y1
GND
VCC
2G~
1Y1
2A4
1Y2
2A3
1Y3
2A2
1Y4
2A1
HO
VB
VS
NC
HIN
LIN
VCC
GND
LO
R6330
100k
C6308
100V
470u
R6394
71.5k
R6395
10.7k
R6396
4.99k
TP6916
TP6917
TP6904
TP6905
GND
NC
VDAR
VDAR
NC
VDAL
VDAL
NC
Vda 75V
Vda 75V
SS
35
TO
C3-BOARD
(C35)
TPVDR
L6315
G0ZZ00002183
D6330
DF20LC20U
L6330
G0ZZ00002183
TPVDL
D6320
DF20LC20U
TP6910
TP6911
TP6914
TP6915
GND
GND
GND
NC
VDAR
VDAR
NC
VDAL
VDAL
NC
Vda 75V
Vda 75V
C6329
100V
470u
SS
42
TO
C4-BOARD
(C42)
ZA6001
K4CD01000011
ZA6003
K4CD01000011
ZA6002
K4CD01000011

⚠ SS-BOARD TXNSS1DNTUJ (2/2)

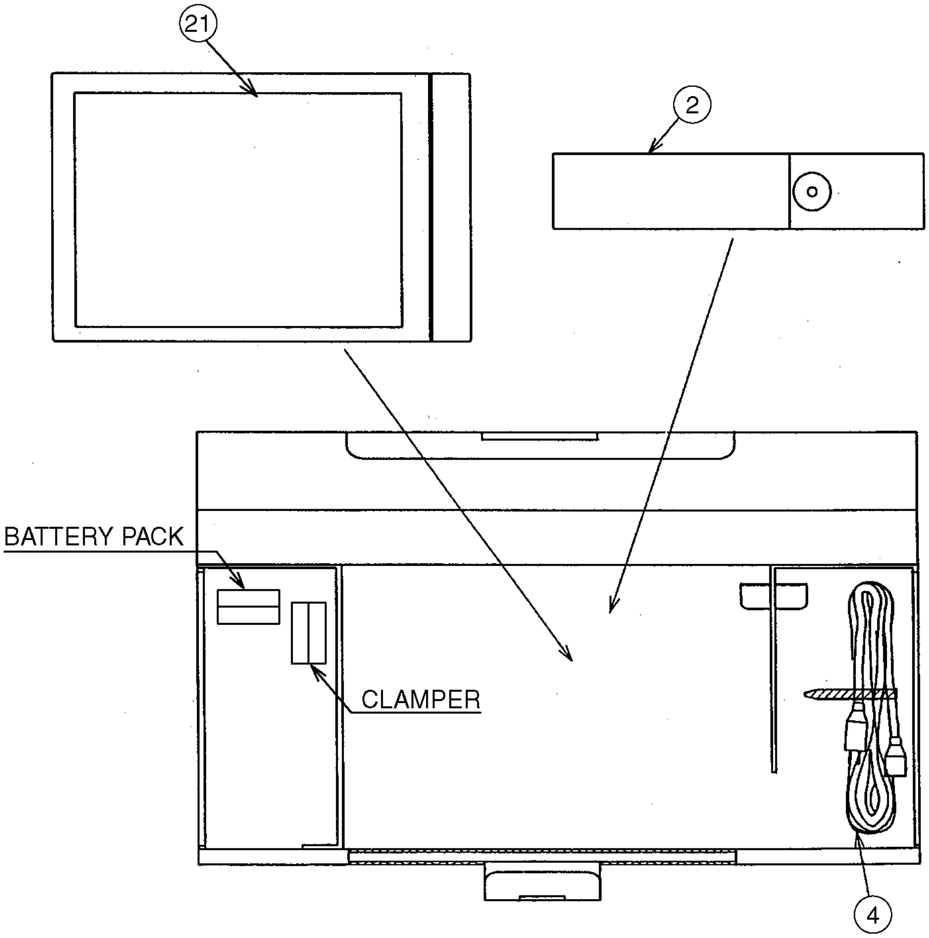
NOTE

16 Parts Location & Mechanical Replacement Parts List

16.1. Parts Location


23
17
10
S-Board
12
K-Board
13
1
14
11
9
1
6
5
3
20
7
20
15
22
8
16
16
18
19
19

16.2. Packing Exploded Views


21
2
BATTERY PACK
CLAMPER
4

16.3. Mechanical Replacement Parts List

Note:

All parts except parts mentioned [PAVCA] in the Remarks column are supplied by PAVC-CSG.

Parts mentioned [PAVCA] are supplied by PAVCA.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	EAS12S10A	SPEAKER	2	
2	EUR7737Z20	REMOTE CONTROL	1	PAVCA
	K1YD68000002	68P CONNECTOR	1	
	K1YD80000002	80P CONNECTOR	1	
3	K2AHYH000007	AC INLET	1	⚠
4	K2CG3DH00025	AC CORD	1	⚠
5	L6FALEFH0041	FAN (80MM)	1	
6	L6FAYYYH0018	FAN (92MM)	2	
7	MD58H09A1J	PLASMA DISPLAY PANEL	1	⚠
8	TBL2AX00081	STAND ASS'Y	1	PAVCA
	TBMA186	PANASONIC BADGE	1	
9	TBX2AA3601	CONTROL BUTTON	1	PAVCA
10	TBX2AA3702	POWER BUTTON	1	PAVCA
11	TES2AA0161	LEAF SPRING	1	PAVCA
12	TES4G204	SPRING	1	
13	TKGA5295	FRONT GLASS	1	PAVCA
14	TKK2AA7001	PANEL LIGHT	1	PAVCA
15	TKP2AA1921	ADJUSTMENT COVER	1	PAVCA
16	TKP2AA1931	M8-SPACER CAP	4	PAVCA
17	TKP2AA1942	BOTTOM DOOR	1	PAVCA
18	TKPA94301	INLET COVER	1	
19	TKRA52501	REAR COVER HANDLE	2	
20	TMZ2AX0041	STAND BRACKET	2	PAVCA
21	TQB2AA0663-1	INSTRUCTION BOOK (ENG/FRE/SPA)	1	PAVCA ⚠
	TSXL520	CABLE (DG1-H1)	1	
	TSXL521	CABLE (DG15-HC15)	1	
	TSXL524	CABLE (DG3-D3)	1	
	TSXL525	CABLE (DG20-PA20)	1	
	TSXL554	CABLE (C10-C20/C50-C60/C23-C33)	3	
	TSXL555	CABLE (C43-C53)	1	
	TSXL556	CABLE (D31-C21)	1	
	TSXL557	CABLE (D32-C22)	1	
	TSXL558	CABLE (D34-C51)	1	
	TSXL559	CABLE (D33-C52)	1	
22	TXFKU12QSER	REAR COVER	1	PAVCA ⚠
23	TXFKY14QSER	ESCUTCHEON ASS'Y	1	PAVCA ⚠
	TXJ/SPBJTU	SPEAKER LEAD (RELAY-SP)	2	

17 Electrical Replacement Parts List

17.1. Replacement Parts List Notes

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

RTL (Retention Time Limited)

Note: The marking (RTL) indicates that the Retention Time is Limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Abbreviation of part name and description

1. Resistor

Example:

ERD25TJ104 C 100KOHM, J, 1/4W
Type Allowance

Type	Allowance
C : Carbon	F : ±1%
F : Fuse	G : ±2%
M : Metal Oxide	J : ±5%
Metal FIlm	K : ±10%
S : Solid	M : ±20%
W : Wire Wound	

2. Capacitor

Example:

ECKF1H103ZF C 0.01UF, Z, 50V
Type Allowance

Type	Allowance
C : Ceramic	C : ±0.25pF
E : Electrolytic	D : ±0.5pF
P : Polyester	F : ±1pF
Polyprop	G : ±3pF
lene	J : ±5pF
T : Tantalum	K : ±10pF
	L : ±15pF
	M : ±20pF
	P : +100%, -0%
	Z : +80%, -20%

17.2. Electrical Replacement Parts List

Note:

All parts except parts mentioned [PAVCA] in the Remarks column are supplied by PAVC-CSG.

Parts mentioned [PAVCA] are supplied by PAVCA.

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
F101.102	K5D103BMA001	TIME LAG FUSE HIGH	2	⚠
C10	K1MN68BA0076	68P CONNECTOR	1	
C20	K1MN68BA0076	68P CONNECTOR	1	
C21	K1MN80BA0076	80P CONNECTOR	1	
C22	K1MN55BA0076	55P CONNECTOR	1	
C23	K1MN68BA0076	68P CONNECTOR	1	
C33	K1MN68BA0076	68P CONNECTOR	1	
C35	K1KA10AA0153	10P CONNECTOR	1	
C42	K1KA12BA0107	12P CONNECTOR	1	
C43	K1MN80BA0076	80P CONNECTOR	1	
C44	K1KA20B00155	20P CONNECTOR	1	
C50	K1MN68BA0076	68P CONNECTOR	1	
C51	K1MN80BA0076	80P CONNECTOR	1	
C52	K1MN68BA0076	68P CONNECTOR	1	
C53	K1MN80BA0076	80P CONNECTOR	1	
C60	K1MN68BA0076	68P CONNECTOR	1	
C1106	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C1111	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C1116	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C1118-23	ECJ0EB1A104K	C 0.1UF, K, 10V	6	
C1125	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C1127-32	ECJ0EB1A104K	C 0.1UF, K, 10V	6	
C1133,34	ECJ1XC1H150J	C 15PF, J, 50V	2	
C1135-42	ECJ0EB1A104K	C 0.1UF, K, 10V	8	
C1144-50	ECJ0EB1A104K	C 0.1UF, K, 10V	7	
C1151	ECJ0EB1H101K	C 100PF, K, 50V	1	
C1152	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C1153	EEEHB0G101R	C 100PF, J, 4V	1	
C1154	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C1155	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C1156,57	ECJ1XC1H220J	C 22PF, J, 50V	2	
C1158	F1J0J1060004	C 0.010UF, K, 16V	1	
C1159	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C1161	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C1167,68	ECJ1VB1A105K	C 0.01UF, Z, 50V	2	
C1169	EEEHB0G101R	C 100PF, J, 4V	1	
C1170-72	ECJ0EB1A104K	C 0.1UF, K, 10V	3	
C1178	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C1190	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C1193,94	F1J0J1060004	C 0.010UF, K, 16V	2	
C1197	ECJ0EB1H101K	C 100PF, K, 50V	1	
C1209	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C1211	ECJ1XC1H471J	C 470PF, J, 50V	1	
C1215	ECJ1XC1H561J	C 560PF, J, 50V	1	
C1219	EEEHP1C100R	C 10PF, J, 16V	1	
C1221	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C1224	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C1226	F1J0J1060004	C 0.010UF, K, 16V	1	
C1227	ECJ0EB1H101K	C 100PF, K, 50V	1	
C1228-34	EEEHB1C470P	C 47PF, J, 16V	7	
C2301	ECA1EHG471	E 470UF, 25V	1	
C2303	ECA1CMH101	E 100UF, 16V	1	
C2314	ECJ1VB1C105K	C 0.01UF, K, 16V	1	
C2317	ECJ2FB1A105K	C 1UF, K, 10V	1	
C2320	ECJ2FB1A105K	C 1UF, K, 10V	1	
C2321	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C2322	ECJ2FB1A105K	C 1UF, K, 10V	1	
C2323,24	ECJ2FB1E224K	C 22UF, K, 25V	2	
C2325,26	ECJ1VB1E104K	C 0.10UF, K, 25V	2	
C2327	F1J1H474A757	C 0.47UF, 50V	1	
C2328-31	ECJ2FB1E105K	C 1UF, K, 25V	4	
C2332,33	ECA1EHG471	E 470UF, 25V	2	
C2334,35	ECJ1VB1E104K	C 0.10UF, K, 25V	2	
C2336	F1J1H474A757	C 0.47UF, 50V	1	
C2337,38	ECJ2FB1E224K	C 22UF, K, 25V	2	
C2341	ECJ3YB1E106M	C 10 UF, K, 25V	1	
C2342	ECJ2FB1E105K	C 1UF, K, 25V	1	
C2373	ECJ1VF1H104Z	C 0.1UF, Z, 50V	1	
C2374	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C2380	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C2382	ECJ1VB1C105K	C 0.01UF, K, 16V	1	
C2385	ECJ2FB1A105K	C 1UF, K, 10V	1	
C2387	ECJ2FB1A105K	C 1UF, K, 10V	1	
C2393,94	ECJ1VB1C105K	C 0.01UF, K, 16V	2	
C2401	ECJ2FB1A105K	C 1UF, K, 10V	1	
C2402	ECJ2FB0J106M	C 10UF, Z,6.3V	1	
C2403	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C2417	ECJ2FB0J106M	C 10UF, Z,6.3V	1	
C2512	ECJ3XB0J106M	C 10UF, M,6.3V	1	
C2515	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C2521	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C2603	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C2606	ECJ1VB1H332K	C 3300PF, K, 50V	1	
C2607	ECJ2FB1C684K	C 68UF, Z, 16V	1	
C2608	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C2609	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C2610-14	ECJ1VF1A105Z	C 1UF, Z, 10V	5	
C2615	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C2616	ECJ2FB1C684K	C 68UF, Z, 16V	1	
C2617	ECJ1VB1H332K	C 3300PF, K, 50V	1	
C2620,21	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C2624	ECA1CMH101	E 100UF, 16V	1	
C2625	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C2626	TCUY1C225ZFN	C 2.2UF, 16V	1	
C2632	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C2633,34	TCUY1C225ZFN	C 2.2UF, 16V	2	
C2636	ECJ1XB1H102K	C 1000UF, Z, 50V	1	
C2637	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C2642	ECJ2FB1C474K	C 0.47UF, Z, 16V	1	
C2643	ECJ1VB1H152K	C 1500PF, K, 50V	1	
C2644	F1J1A106A043	C 0.010UF, K, 16V	1	
C2645	ECJ1VB1C103K	C 0.010UF, K, 16V	1	
C2646,47	ECJ1VB1C105K	C 0.01UF, K, 16V	2	
C2648	ECJ1VB1C103K	C 0.010UF, K, 16V	1	
C2649,50	ECJ1VB1C105K	C 0.01UF, K, 16V	2	
C2652	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C2656	ECA1HHG220	E 22UF, 50V	1	
C2657	ECJ1VB1C103K	C 0.010UF, K, 16V	1	
C2658	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C2660,61	ECJ1VB1C105K	C 0.01UF, K, 16V	2	
C2662	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2663	ECJ1VB1C103K	C 0.010UF, K, 16V	1	
C2665,66	ECJ2VF1C104Z	C 0.1UF, Z, 16V	2	
C2667	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C2668	ECJ1VB1C103K	C 0.010UF, K, 16V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C2670	ECJ2VF1C104Z	C 0.1UF, Z, 16V	1	
C2672	ECA1HHG220	E 22UF, 50V	1	
C2673	F1J1A106A043	C 0.010UF, K, 16V	1	
C2675	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C2676	ECJ2FB1A105K	C 1UF, K, 10V	1	
C2677	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C2678	ECJ2FB1A105K	C 1UF, K, 10V	1	
C2679-82	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C2684	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C2685	ECJ1XC1H102J	C 1000PF, J, 50V	1	
C2686-89	ECJ2FB1A105K	C 1UF, K, 10V	4	
C2694	ECJ2XB1C154K	C 0.15PF, K, 16V	1	
C2699	ECJ1XC1H102J	C 1000PF, J, 50V	1	
C2700	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C2701	ECA1HHG220	E 22UF, 50V	1	
C2702	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C2703	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C2705	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C2706	ECJ1VB1H152K	C 1500PF, K, 50V	1	
C2707	ECJ1XC1H102J	C 1000PF, J, 50V	1	
C2708	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C2709	ECJ2XB1C154K	C 0.15PF, K, 16V	1	
C2710	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C2711	ECJ1XC1H102J	C 1000PF, J, 50V	1	
C2712	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C2713	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C2714	ECJ1XB1H102K	C 1000UF, Z, 50V	1	
C2715	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C2717	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C2718	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C2722	ECJ2FB1C474K	C 0.47UF, Z, 16V	1	
C2723	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C2725,26	ECA1HHG100	E 10UF, 50V	2	
C2727,28	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C2729	F1J1A106A043	C 0.010UF, K, 16V	1	
C2730	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C2731	ECJ1VF1H104Z	C 0.1UF, Z, 50V	1	
C2732	ECA1CMH101	E 100UF, 16V	1	
C2733	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C2734	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C2735	ECA1CMH101	E 100UF, 16V	1	
C2737	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C2739,40	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C2741	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C2742	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C2743	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C2744	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C2746	ECA1CMH101	E 100UF, 16V	1	
C2747	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C2750	ECA1HHG220	E 22UF, 50V	1	
C2751-54	ECJ1VF1A105Z	C 1UF, Z, 10V	4	
C2756	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C2757	ECA1CMH101	E 100UF, 16V	1	
C2762	TCUY1C225ZFN	C 2.2UF, 16V	1	
C2768,69	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C2773	ECA1HHG220	E 22UF, 50V	1	
C2774	ECA1HHG100	E 10UF, 50V	1	
C2775	ECA1EHG471	E 470UF, 25V	1	
C2777,78	TCUY1C225ZFN	C 2.2UF, 16V	2	
C2779,80	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C2783	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C2784,85	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C2790	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C2791	F2A1H4700036	E 47UF, 50V	1	PAVCA
C2792,93	ECJ1VF1A105Z	C 1UF, Z, 10V	2	
C2798	ECJ1VB1C105K	C 0.01UF, K, 16V	1	
C2801	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C2802	ECJ1VB1C105K	C 0.01UF, K, 16V	1	
C3750	ECJ2XC1H102K	C 1000PF, K, 50V	1	
C4003-08	F1J0J1060004	C 0.010UF, K, 16V	6	
C4014,15	F1J0J1060004	C 0.010UF, K, 16V	2	
C4023	F1J0J1060004	C 0.010UF, K, 16V	1	
C4026	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4027	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4028	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4112	F1J0J1060004	C 0.010UF, K, 16V	1	
C4117	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4158	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4159	F1H1C104A065	C 0.1UF, K, 16V	1	
C4160	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4165	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4168	ECJ1XC1H680J	C 68PF, J, 50V	1	
C4171	ECJ1XC1H471J	C 470PF, J, 50V	1	
C4172,73	F1H1C104A065	C 0.1UF, K, 16V	2	
C4174	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4175	F1H1C104A065	C 0.1UF, K, 16V	1	
C4176	ECJ1VB0J225K	C 2.2UF, K, 6.3V	1	
C4177	ECJ2FB1C684K	C 68UF, Z, 16V	1	
C4178	ECJ1XB1C393K	C 0.039UF, K, 16V	1	
C4180	F1H1C104A065	C 0.1UF, K, 16V	1	
C4185,86	ECJ3XB0J106M	C 10UF, M,6.3V	2	
C4188	F1J0J1060004	C 0.010UF, K, 16V	1	
C4189-91	ECJ0EB1A104K	C 0.1UF, K, 10V	3	
C4199	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4200	F2G0J470A019	E 47UF 6.3V	1	
C4201	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4204	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4205,06	F1H1C104A065	C 0.1UF, K, 16V	2	
C4208,09	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C4211	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4215	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4216	F2G0J470A019	E 47UF 6.3V	1	
C4217	F1H1C104A065	C 0.1UF, K, 16V	1	
C4218	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C4219	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4224	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4227	ECJ1VB1C823K	C 0.082UF, K, 16V	1	
C4228	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4235	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4244	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4245	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4248	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4253	F2G0J470A019	E 47UF 6.3V	1	
C4256	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4262-64	ECJ0EB1A104K	C 0.1UF, K, 10V	3	
C4266	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4269	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4272	F2G0J470A019	E 47UF 6.3V	1	
C4273	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4281-84	ECJ0EB1A104K	C 0.1UF, K, 10V	4	
C4287,88	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C4289,90	EEEHB0J330R	C 33PF, J, 6.3V	2	
C4291,92	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C4296	F1J0J1060004	C 0.010UF, K, 16V	1	
C4297	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4298-06	ECJ1VB1A105K	C 0.01UF, Z, 50V	9	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4307-09	ECJ0EB1A104K	C 0.1UF, K, 10V	3	
C4310	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4311	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4313,14	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C4315	F1J0J1060004	C 0.010UF, K, 16V	1	
C4316-18	ECJ0EB1A104K	C 0.1UF, K, 10V	3	
C4320-22	ECJ0EB1A104K	C 0.1UF, K, 10V	3	
C4325	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4327	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4329,30	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C4331	F1J0J1060004	C 0.010UF, K, 16V	1	
C4332	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4333-38	ECJ0EB1A104K	C 0.1UF, K, 10V	6	
C4339	ECJ1VB0J225K	C 2.2UF, K, 6.3V	1	
C4340	ECJ1XC1H471J	C 470PF, J, 50V	1	
C4341	EEEHB1C470P	C 47PF, J, 16V	1	
C4342	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4343	EEEHB1C100R	C 10PF, J, 16V	1	
C4344,45	F1J0J1060004	C 0.010UF, K, 16V	2	
C4346	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4347	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4348	EEEHB1C470P	C 47PF, J, 16V	1	
C4349	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4350,51	ECJ1XC1H181J	C 180PF, J, 50V	2	
C4352,53	ECJ1XC1H330J	C 33PF, J, 50V	2	
C4354	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4360	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4362	F1J0J1060004	C 0.010UF, K, 16V	1	
C4363,64	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C4365	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4366	F2G0J470A019	E 47UF 6.3V	1	
C4367	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4371	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C4372	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4373	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4374	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4375,76	ECJ0EB1H102K	C 1000PF, K, 50V	2	
C4377	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4379	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4380	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C4381,82	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C4383	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C4384	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4385	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C4386	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4387	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C4388	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4389	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4390	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C4391	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4392	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4393,94	ECJ0EB1H102K	C 1000PF, K, 50V	2	
C4395	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4396	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C4397,98	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C4399,00	ECJ1VB1A105K	C 0.01UF, Z, 50V	2	
C4401	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4402,03	ECJ0EB1H102K	C 1000PF, K, 50V	2	
C4404	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4405	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4406	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C4407,08	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C4409	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C4410	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4411,12	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C4413,14	ECJ0EB1H102K	C 1000PF, K, 50V	2	
C4415	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4417	F2G0J470A019	E 47UF 6.3V	1	
C4418,19	ECJ1VB1A105K	C 0.01UF, Z, 50V	2	
C4420,21	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C4422-24	ECJ0EB1H102K	C 1000PF, K, 50V	3	
C4425,26	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C4427	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C4428	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4429,30	ECJ0EB1H102K	C 1000PF, K, 50V	2	
C4434	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C4435	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4436-39	ECJ0EB1H102K	C 1000PF, K, 50V	4	
C4440	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4441,42	ECJ0EB1H102K	C 1000PF, K, 50V	2	
C4447	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4448	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4451	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C4452	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4453,54	ECJ0EB1H102K	C 1000PF, K, 50V	2	
C4455	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4456	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4457,58	ECJ0EB1H102K	C 1000PF, K, 50V	2	
C4459	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4460	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C4461	ECJ1XC1H820J	C 82PF, J, 50V	1	
C4462	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4464	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4465	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4466	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4467	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4470	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4474	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4475,76	ECJ0EB1H102K	C 1000PF, K, 50V	2	
C4477	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4478	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4479-81	ECJ0EB1H102K	C 1000PF, K, 50V	3	
C4482	ECJ1XC1H180J	C 18PF, J, 50V	1	
C4483	ECJ1XC1H150J	C 15PF, J, 50V	1	
C4493	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4494	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4496	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4497	EEEHB0G101R	C 100PF, J, 4V	1	
C4498	ECJ1XC1H471J	C 470PF, J, 50V	1	
C4499	EEFCD0G560ER	56UF,	1	
C4501	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4502	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4503	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4504	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4505	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4506	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4507	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4508	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4509-11	ECJ0EB1A104K	C 0.1UF, K, 10V	3	
C4512	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4513	ECJ0EB1A104K	C 0.1UF, K, 10V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C4514	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4515,16	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C4517	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4518	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4519	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4520	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4521	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4522	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4523	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4524	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4525	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4526	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4527	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C4528	F2G0J470A019	E 47UF 6.3V	1	
C4529	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4530,31	ECJ0EB1H102K	C 1000PF, K, 50V	2	
C4532,33	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C4534	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C4535	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4536	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4537	EEEHB0G101R	C 100PF, J, 4V	1	
C4538	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4539	ECJ1VB1A105K	C 0.01UF, Z, 50V	1	
C4540	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C4541	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C4544	ECJ1VB1C105K	C 0.01UF, K, 16V	1	
C5605	EEUFC1E471	E 470UF, 25V	1	
C5606	ECA1CM471	E 470UF, 16V	1	
C5609	ECA1HM220	E 22UF, 50V	1	
C5611	F2A1H331A257	E 330UF, 50V	1	
C5612	ECA1CM471	E 470UF, 16V	1	
C5613	ECJ1VB1E104K	C 0.10UF, K, 25V	1	
C5616	ECJ1VB1E104K	C 0.10UF, K, 25V	1	
C5617	ECA1CM471	E 470UF, 16V	1	
C5618,19	ECJ1VB1E104K	C 0.10UF, K, 25V	2	
C5622	ECA1CM471	E 470UF, 16V	1	
C5623	ECJ1VB1E104K	C 0.10UF, K, 25V	1	
C5626	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C5633	ECA1EM221	E 220UF, 25V	1	
C5637	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C5641-44	ECJ1XF1C104Z	C 0.1UF, Z, 16V	4	
C5645	ECA1CHG470	E 47UF, 16V	1	
C5646	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C5647	ECA1CHG470	E 47UF, 16V	1	
C5648	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C5670	ECJ1VB1E104K	C 0.10UF, K, 25V	1	
C5672	ECA1HHG100	E 10UF, 50V	1	
C5673	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C5801,02	EEUFC1E471	E 470UF, 25V	2	
C5804	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C5805	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C5809	ECJ3XF1E105Z	C 1UF, Z, 25V	1	
C5810	ECA1EHG470	E 47UF, 25V	1	
C6001	F1L2J562A022	C 5600UF, K,6.3V	1	
C6003,04	F1L2J562A022	C 5600UF, K,6.3V	2	
C6011-19	F2A2D221A022	E 220UF, 200V	9	
C6021-25	F1L2J562A022	C 5600UF, K,6.3V	5	
C6031	F0C2E405A176	E 0.040UF, 250V	1	
C6037	F1L1E4750004	C 4.7UF, 25V	1	
C6041-44	TCUY1C105ZFN	C 1UF, 16V	4	
C6111,12	F2A2D221A022	E 220UF, 200V	2	
C6132	F1L1E4750004	C 4.7UF, 25V	1	
C6134,35	F1L1E4750004	C 4.7UF, 25V	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C6151	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6152-54	F1L1E4750004	C 4.7UF, 25V	3	
C6192	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6195	F1L1E4750004	C 4.7UF, 25V	1	
C6202-05	F0C2E405A176	E 0.040UF, 250V	4	
C6211,12	F1L1E4750004	C 4.7UF, 25V	2	
C6213	F2A1E102A220	E 1000UF, 25V	1	
C6221	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C6241	F2A1A1010074	E 100UF, 10V	1	
C6242	TCUY1C105ZFN	C 1UF, 16V	1	
C6243	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6251	TCUY1C105ZFN	C 1UF, 16V	1	
C6257	F1L1E4750004	C 4.7UF, 25V	1	
C6261-64	ECA2CM101	E 100UF, 160V	4	
C6272,73	ECA1EM221	E 220UF, 25V	2	
C6281	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C6301	ECA1EM221	E 220UF, 25V	1	
C6302	F1L1E4750004	C 4.7UF, 25V	1	
C6304	F1L1E4750004	C 4.7UF, 25V	1	
C6306,07	ECA1EM221	E 220UF, 25V	2	
C6308,09	ECA2CM101	E 100UF, 160V	2	
C6316	ECA1EM221	E 220UF, 25V	1	
C6317	F1L1E4750004	C 4.7UF, 25V	1	
C6319	F1L1E4750004	C 4.7UF, 25V	1	
C6329,30	ECA2CM101	E 100UF, 160V	2	
C6331	F1L1E4750004	C 4.7UF, 25V	1	
C6332	ECA1EM221	E 220UF, 25V	1	
C6333	F1L1E4750004	C 4.7UF, 25V	1	
C6335	F1L1E4750004	C 4.7UF, 25V	1	
C6338-40	F0C2E405A176	E 0.040UF, 250V	3	
C6346	F1L1E4750004	C 4.7UF, 25V	1	
C6348	F1L1E4750004	C 4.7UF, 25V	1	
C6350	F1L1E4750004	C 4.7UF, 25V	1	
C6361	TCUY1C105ZFN	C 1UF, 16V	1	
C6371	ECA2AHG101	E 100UF, 100V	1	
C6386	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6389-91	ECJ2XB1H103K	C 0.01UF, K, 50V	3	
C6401-05	F1L2J222A022	C 2200UF, K,6.3V	5	
C6411-19	F2A2D221A022	E 220UF, 200V	9	
C6422-27	F1L2J222A022	C 2200UF, K,6.3V	6	
C6431,32	F0C2E225A166	E 22UF, 250V	2	
C6472	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C6480	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C6502	F1L1E4750004	C 4.7UF, 25V	1	
C6504,05	F1L1E4750004	C 4.7UF, 25V	2	
C6511-14	F0C2E405A176	E 0.040UF, 250V	4	
C6521	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6522	F1L1E4750004	C 4.7UF, 25V	1	
C6524,25	F1L1E4750004	C 4.7UF, 25V	2	
C6527	F1L1E4750004	C 4.7UF, 25V	1	
C6561	F2A1A1010074	E 100UF, 10V	1	
C6562	TCUY1C105ZFN	C 1UF, 16V	1	
C6563	F2A1A1010074	E 100UF, 10V	1	
C6564	TCUY1C105ZFN	C 1UF, 16V	1	
C6565,66	ECJ2XB1H103K	C 0.01UF, K, 50V	2	
C6581	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6582	TCUY1C105ZFN	C 1UF, 16V	1	
C6592	ECA1EM221	E 220UF, 25V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C6593	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C6594	ECA1EM221	E 220UF, 25V	1	
C6601,02	F1L1E4750004	C 4.7UF, 25V	2	
C6603	F1K2J102A014	C 1000UF, K,6.3V	1	
C6604	F2A2V470A020	E 47UF, 350V	1	
C6605	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C6606	F1K2J102A014	C 1000UF, K,6.3V	1	
C6610	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6611	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6612	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6620	ECJ3XB2J222K	C 2200PF, K,630V	1	
C6641	ECQE2105RKB	P 1UF, 250V	1	
C6661,62	F1K2J102A014	C 1000UF, K,6.3V	2	
C6671	F1L1E4750004	C 4.7UF, 25V	1	
C6681,82	F1L1E4750004	C 4.7UF, 25V	2	
C6683	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C6691	ECA2CM101	E 100UF, 160V	1	
C6701-08	ECJ2XB1H104K	C 0.1UF, K, 50V	8	
C6721	F2A1H101A252	E 100UF, 50V	1	
C6723-25	F1L1E4750004	C 4.7UF, 25V	3	
C6726,27	TCUY1C105ZFN	C 1UF, 16V	2	
C6728	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C6752	TCUY1C105ZFN	C 1UF, 16V	1	
C6753	F1L1E4750004	C 4.7UF, 25V	1	
C6754	F2A1V5600014	E 56UF, 35V	1	
C6755	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C6771	TCUY1C105ZFN	C 1UF, 16V	1	
C6772,73	F1L1E4750004	C 4.7UF, 25V	2	
C6775	F1L1E4750004	C 4.7UF, 25V	1	
C6776,77	ECJ2XB1H104K	C 0.1UF, K, 50V	2	
C6791	ECA1EM221	E 220UF, 25V	1	
C6795,96	ECA1EM221	E 220UF, 25V	2	
C6801	F2A2E470A022	E 47UF, 250V	1	
C6802	ECQE6223KF	P 0.022UF, K,400V	1	
C6803	ECKD3D221KBP	C 220PF, K, 2KV	1	
C6804	F2A2E100A022	E 10UF, 250V	1	
C6805	ECJ2XC1H102J	C 1000PF, J, 50V	1	
C6806	ECA2CM101	E 100UF, 160V	1	
C6807	ECJ2XC1H471J	C 470PF, J, 50V	1	
C6808	ECQE2105RKB	P 1UF, 250V	1	
C6811	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6812	F1L1E4750004	C 4.7UF, 25V	1	
C6813	ECA2CM101	E 100UF, 160V	1	
C6814	ECA1VM151	E 150UF, 35V	1	
C6815	ECJ2XB1H104K	C 0.1UF, K, 50V	1	
C6822	F2A2V470A020	E 47UF, 350V	1	
C6823	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6841	ECA2DHG101	E 100UF, 200V	1	
C6842	ECA2CM101	E 100UF, 160V	1	
C6845	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6861	TCUY1C105ZFN	C 1UF, 16V	1	
C6862	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6863	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6871	TCUY1C105ZFN	C 1UF, 16V	1	
C6872	ECJ3YB1E105K	C 1UF, K, 25V	1	
C6873	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C6901	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C6902	TCUY1C105ZFN	C 1UF, 16V	1	
C6904	TCUY1C105ZFN	C 1UF, 16V	1	
C6906	TCUY1C105ZFN	C 1UF, 16V	1	
C6908	TCUY1C105ZFN	C 1UF, 16V	1	
C6910	TCUY1C105ZFN	C 1UF, 16V	1	
C6912	TCUY1C105ZFN	C 1UF, 16V	1	
C6914-18	ECJ2XB1H221K	C 220PF, K, 50V	5	
C6931	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C6932-35	F1L2E105A013	E 0.10UF, 25V	4	
C6951	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C6952	TCUY1C105ZFN	C 1UF, 16V	1	
C6955	TCUY1C105ZFN	C 1UF, 16V	1	
C6957,58	TCUY1C105ZFN	C 1UF, 16V	2	
C6961	TCUY1C105ZFN	C 1UF, 16V	1	
C6963	TCUY1C105ZFN	C 1UF, 16V	1	
C6964-68	ECJ2XB1H221K	C 220PF, K, 50V	5	
C6981	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C6982-85	F1L2E105A013	E 0.10UF, 25V	4	
C7102	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7104	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7106	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7108	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7109-11	ECJ3XB2A474K	C 0.47UF, 6.3V	3	
C7112	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7120	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7122,23	ECJ1XC1H101J	C 100PF, J, 50V	2	
C7124	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7125	TCUY1C105ZFN	C 1UF, 16V	1	
C7129	TCUY1C105ZFN	C 1UF, 16V	1	
C7131	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7134,35	TCUY1C105ZFN	C 1UF, 16V	2	
C7138,39	TCUY1C105ZFN	C 1UF, 16V	2	
C7142,43	TCUY1C105ZFN	C 1UF, 16V	2	
C7201	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7202	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7207,08	TCUY1C105ZFN	C 1UF, 16V	2	
C7213	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7215	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7218,19	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C7221	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7224	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7227	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7228	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7230	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7233	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7235	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7236-38	ECJ3XB2A474K	C 0.47UF, 6.3V	3	
C7240,41	ECJ1XC1H101J	C 100PF, J, 50V	2	
C7244,45	TCUY1C105ZFN	C 1UF, 16V	2	
C7248,49	TCUY1C105ZFN	C 1UF, 16V	2	
C7252	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7253,54	TCUY1C105ZFN	C 1UF, 16V	2	
C7257	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7259	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7263	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7304	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7309	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7311,12	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C7323	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7329	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7351	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7356,57	TCUY1C105ZFN	C 1UF, 16V	2	
C7360-62	ECJ3XB2A474K	C 0.47UF, 6.3V	3	
C7393,94	TCUY1C105ZFN	C 1UF, 16V	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C7397,98	TCUY1C105ZFN	C 1UF, 16V	2	
C7402	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7404	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7406	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7408	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7409,10	TCUY1C105ZFN	C 1UF, 16V	2	
C7412	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7413	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7415	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7419,20	TCUY1C105ZFN	C 1UF, 16V	2	
C7423	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7429	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7430,31	TCUY1C105ZFN	C 1UF, 16V	2	
C7434	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7436	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7437	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7502	TCUY1C105ZFN	C 1UF, 16V	1	
C7503	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7506	TCUY1C105ZFN	C 1UF, 16V	1	
C7509	TCUY1C105ZFN	C 1UF, 16V	1	
C7510	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7513	TCUY1C105ZFN	C 1UF, 16V	1	
C7515	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7517	TCUY1C105ZFN	C 1UF, 16V	1	
C7518	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7521	TCUY1C105ZFN	C 1UF, 16V	1	
C7523	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7525	TCUY1C105ZFN	C 1UF, 16V	1	
C7526	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7529	TCUY1C105ZFN	C 1UF, 16V	1	
C7531	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7533	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7535	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7537	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7539	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7541	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7543	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7545	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7547	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7548	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7550	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7552	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7555,56	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C7558,59	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C7603	TCUY1C105ZFN	C 1UF, 16V	1	
C7606,07	TCUY1C105ZFN	C 1UF, 16V	2	
C7610,11	TCUY1C105ZFN	C 1UF, 16V	2	
C7614	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7616	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7618	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7620	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7622	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C7635-37	ECJ1XC1H101J	C 100PF, J, 50V	3	
C7638	TCUY1C105ZFN	C 1UF, 16V	1	
C7639	ECJ1XC1H101J	C 100PF, J, 50V	1	
C7641,42	TCUY1C105ZFN	C 1UF, 16V	2	
C7644	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7647	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7650	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7653	ECJ3XB2A474K	C 0.47UF, 6.3V	1	
C7701	ECJ1XC1H330J	C 33PF, J, 50V	1	
C7702	EEEHB0G470R	C 47PF, J, 4V	1	
C7703,04	ECJ1XC1H330J	C 33PF, J, 50V	2	
C7705	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C7707	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C7708	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C7709	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C7711	ECJ1XC1H330J	C 33PF, J, 50V	1	
C8099,00	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C8101,02	ECJ1XB0J105K	C 1UF, K, 16V	2	
C8103,04	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C8105	EEEHB0G101R	C 100PF, J, 4V	1	
C8106,07	ECJ1XB0J105K	C 1UF, K, 16V	2	
C8108	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C8109	EEEHB0G101R	C 100PF, J, 4V	1	
C8110,11	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C8112	ECJ1XB0J105K	C 1UF, K, 16V	1	
C8113-18	ECJ0EB1A104K	C 0.1UF, K, 10V	6	
C8120,21	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C8128,29	ECJ0EB1C103K	C0.010UF, K, 16V	2	
C8144	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C8145	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C8162	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C8164	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C8170	F1J1A106A043	C 0.010UF, K, 16V	1	
C8200	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C8201	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C8202,03	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C8204	EEEHB0J221P	C 220PF, J, 6.3V	1	
C8205	EEEHB1H220P	C 22PF, J, 50V	1	
C8206,07	EEEHB0J221P	C 220PF, J, 6.3V	2	
C8208	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
C8211	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
C8212	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C8218,19	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C8220	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C8222	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C8224,25	ECJ0EB1C103K	C0.010UF, K, 16V	2	
C8226	F2G0J470A019	E 47UF 6.3V	1	
C8228,29	ECJ0EB1C103K	C0.010UF, K, 16V	2	
C8231	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C8233	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C8234,35	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C8237	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C8238,39	ECJ0EB1C103K	C0.010UF, K, 16V	2	
C8240	ECJ1XB0J105K	C 1UF, K, 16V	1	
C8241	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C8244	ECJ1VF1A105Z	C 1UF, Z, 10V	1	
C8245	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C8246	EEEHB0G470R	C 47PF, J, 4V	1	
C8247	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C8253	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C8254	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C8255	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C8272,73	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C8298,99	ECJ0EB1C103K	C0.010UF, K, 16V	2	
C8302	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C8303	F2G0J470A019	E 47UF 6.3V	1	
C8304,05	ECJ0EC1H150J	C 15PF, K, 50V	2	
C8306	ECJ0EB1A104K	C 0.1UF, K, 10V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C8308-10	ECJ0EB1A104K	C 0.1UF, K, 10V	3	
C8311,12	ECJ1XB0J105K	C 1UF, K, 16V	2	
C8313-15	ECJ0EB1A104K	C 0.1UF, K, 10V	3	
C8316	EEEHB1C100R	C 10PF, J, 16V	1	
C8317-19	ECJ0EB1A104K	C 0.1UF, K, 10V	3	
C8320	ECJ1XB0J105K	C 1UF, K, 16V	1	
C8321-23	ECJ0EB1A104K	C 0.1UF, K, 10V	3	
C8327	EEEHB1C100R	C 10PF, J, 16V	1	
C8329-31	ECJ0EB1A104K	C 0.1UF, K, 10V	3	
C8332	ECJ0EC1H151J	C 180PF, K, 50V	1	
C8333,34	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C8336	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C8337	EEEHB1C100R	C 10PF, J, 16V	1	
C8338	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C8342-44	ECJ0EB1A104K	C 0.1UF, K, 10V	3	
C8345,46	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C8347-53	ECJ0EB1A104K	C 0.1UF, K, 10V	7	
C8355	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C8356	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C8357,58	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C8359	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
C8360	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C8361	ECJ0EC1H270J	C 270PF, K, 50V	1	
C8362	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C8365	ECJ1VB1A224K	C 0.22UF, Z, 50V	1	
C8368-76	ECJ0EB1A104K	C 0.1UF, K, 10V	9	
C8377	ECJ0EB1C223K	C 0.022UF, K, 16V	1	
C8413,14	ECJ0EC1H120J	C 120PF, K, 50V	2	
C8415	ECJ0EB1H471K	C 470PF, K, 50V	1	
C8419	ECJ1VB1C105K	C 0.01UF, K, 16V	1	
C8420,21	ECJ0EB1H102K	C 1000PF, K, 50V	2	
C8430	ECJ0EC1H050C	C 5PF, D, 50V	1	
C8432	ECJ0EC1H270J	C 270PF, K, 50V	1	
C8433,34	ECJ0EC1H101J	C 100PF, K, 50V	2	
C8435,36	ECJ0EC1H470J	C 470PF, K, 50V	2	
C8437	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C8440,41	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C8445	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C8446	ECJ0EB1H182K	C 1800UF, Z, 50V	1	
C8450-52	ECJ2FF1A475Z	C 4.7UF, Z, 10V	3	
C8453	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C8456,57	F1J0J475A035	C 4.7UF, K, 16V	2	
C8467,68	ECJ0EB1C103K	C0.010UF, K, 16V	2	
C8469	ECJ1VB0J334K	C 0.33UF, K,6.3V	1	
C8474	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C8475,76	ECJ1XB0J105K	C 1UF, K, 16V	2	
C8477	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C8478	ECJ1XB0J105K	C 1UF, K, 16V	1	
C8479,80	ECJ0EB1C103K	C0.010UF, K, 16V	2	
C8482	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C8483	ECJ0EC1H101J	C 100PF, K, 50V	1	
C8484	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C8485	ECJ1VB0J475K	C 4.7UF, K, 6.3V	1	
C8486	F1J1A106A043	C 0.010UF, K, 16V	1	
C8487	ECJ0EC1H151J	C 180PF, K, 50V	1	
C8488	ECJ0EC1H101J	C 100PF, K, 50V	1	
C8492	EEEHB1C470P	C 47PF, J, 16V	1	
C8495	ECJ0EC1H020C	C 2PF, D, 50V	1	PAVCA
C8496	ECGRL0G680ER	C 68PF, J, 4V	1	
C8500	ECJ2FF1A475Z	C 4.7UF, Z, 10V	1	
C8501	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C8503,04	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C8505	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C8506	EEEHB1C470P	C 47PF, J, 16V	1	
C8507,08	ECJ2FF1A475Z	C 4.7UF, Z, 10V	2	
C8509	EEEHB1C470P	C 47PF, J, 16V	1	
C8510	ECJ0EC1H050C	C 5PF, D, 50V	1	
C8511	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C8515	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C8516	F2G0J470A019	E 47UF 6.3V	1	
C8517	ECJ0EC1H050C	C 5PF, D, 50V	1	
C8518	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C8520,21	ECJ0EC1H181J	C 180PF, K, 50V	2	
C8522,23	ECJ0EC1H390J	C 390PF, K, 50V	2	
C8529	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C8530	ECGRL0G680ER	C 68PF, J, 4V	1	
C8531	ECJ1VB1C105K	C 0.01UF, K, 16V	1	
C8532	ECJ0EB1C223K	C 0.022UF, K, 16V	1	
C8533,34	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C8535	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C8536	ECJ1XB1H102K	C 1000UF, Z, 50V	1	
C8537	ECJ0EB1H471K	C 470PF, K, 50V	1	
C8538	ECJ1VF1H104Z	C 0.1UF, Z, 50V	1	
C8542	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C8546,47	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C8550	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C8551	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C8552	ECJ1VB1C105K	C 0.01UF, K, 16V	1	
C8553-55	ECJ0EB1A104K	C 0.1UF, K, 10V	3	
C8556	ECJ1VB0J475K	C 4.7UF, K, 6.3V	1	
C8557	F1J1A106A043	C 0.010UF, K, 16V	1	
C8558	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C8559,60	EEEHB1C470P	C 47PF, J, 16V	2	
C8561	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C8563	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C8567	ECGRL0G680ER	C 68PF, J, 4V	1	
C8568	ECJ2FB0J106M	C 10UF, Z,6.3V	1	
C8572	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C8573	ECJ2FB0J106M	C 10UF, Z,6.3V	1	
C8577	ECJ0EC1H270J	C 270PF, K, 50V	1	
C8578	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C8581	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C8584	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C8590	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C8592	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C8594	ECGRL0G680ER	C 68PF, J, 4V	1	
C8595,96	ECJ0EB1C103K	C0.010UF, K, 16V	2	
C8597	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C8598	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C8600	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C8601	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C8602-04	ECJ0EB1C103K	C0.010UF, K, 16V	3	
C8605	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C8606	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C8607	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C8608	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C8609	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C8610	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C8611,12	ECJ0EB1A104K	C 0.1UF, K, 10V	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C8613	ECJ1XB0J105K	C 1UF, K, 16V	1	
C8614	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C8615,16	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C8617	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C8620	ECJ0EB1A104K	C 0.1UF, K, 10V	1	
C8621	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C8622	ECGRL0G680ER	C 68PF, J, 4V	1	
C8624	ECJ0EB1C103K	C0.010UF, K, 16V	1	
C8626-28	ECJ0EB1C103K	C0.010UF, K, 16V	3	
C8629,30	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C8633,34	ECJ0EC1H151J	C 180PF, K, 50V	2	
C8635,36	ECJ0EC1H100D	C 10PF, K, 50V	2	
C8639	ECJ1XB0J105K	C 1UF, K, 16V	1	
C8644,45	ECJ1XB0J105K	C 1UF, K, 16V	2	
C8646	ECJ0EB1H102K	C 1000PF, K, 50V	1	
C8652	ECJ2FF1A106Z	C 0.001UF, Z, 10V	1	
C8653,54	ECJ1XB0J105K	C 1UF, K, 16V	2	
C8660,61	ECJ0EB1A104K	C 0.1UF, K, 10V	2	
C8662-64	ECJ0EB1H102K	C 1000PF, K, 50V	3	
C8665,66	ECJ1VF1H104Z	C 0.1UF, Z, 50V	2	
C9028,29	F1J0J1060004	C 0.010UF, K, 16V	2	
C9033,34	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9035,36	F1J0J1060004	C 0.010UF, K, 16V	2	
C9037	ECJ1VB1H103K	C 0.001UF, K, 50V	1	
C9039	F1J0J1060004	C 0.010UF, K, 16V	1	
C9040	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9044-53	ECJ1XF1C104Z	C 0.1UF, Z, 16V	10	
C9055-57	ECJ1XF1C104Z	C 0.1UF, Z, 16V	3	
C9058	F1J0J1060004	C 0.010UF, K, 16V	1	
C9300-25	ECJ1XB1C104K	C 0.1UF, Z, 16V	26	
C9327-51	ECJ1XB1C104K	C 0.1UF, Z, 16V	25	
C9352	EEFCD0G560ER	56UF,	1	
C9355-59	ECJ1XB1C104K	C 0.1UF, Z, 16V	5	
C9360-64	ECJ3XB0J106M	C 10UF, M,6.3V	5	
C9365	EEFCD0G560ER	56UF,	1	
C9366,67	ECJ1VF1H103Z	C 0.010UF, Z, 50V	2	
C9368	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9442-70	ECJ1XB1C104K	C 0.1UF, Z, 16V	29	
C9472-96	ECJ1XB1C104K	C 0.1UF, Z, 16V	25	
C9497	EEFCD0G560ER	56UF,	1	
C9512,13	ECJ1XB1C104K	C 0.1UF, Z, 16V	2	
C9514,15	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C9516-25	ECJ1XB1C104K	C 0.1UF, Z, 16V	10	
C9526	F1J0J1060004	C 0.010UF, K, 16V	1	
C9527-30	ECJ1XB1C104K	C 0.1UF, Z, 16V	4	
C9531	F1J0J1060004	C 0.010UF, K, 16V	1	
C9532	ECJ1XC1H101K	C 100PF, K, 50V	1	
C9533	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9534-38	ECJ3XB0J106M	C 10UF, M,6.3V	5	
C9539	EEFCD0G560ER	56UF,	1	
C9540,41	ECJ1VF1H103Z	C 0.010UF, Z, 50V	2	
C9542	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9546,47	ECJ1VC1H120J	C 12PF, J, 50V	2	
C9548	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9552	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9554	F1J0J1060004	C 0.010UF, K, 16V	1	
C9557	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C9601	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9608	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9609	ECJ2VF1C105Z	C 1UF, Z, 16V	1	
C9800	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9801	ECJ1VB1H472K	C 4700PF, K, 50V	1	
C9802	ECJ1XC1H470J	C 47PF, J, 50V	1	
C9803	ECJ1VB1H472K	C 4700PF, K, 50V	1	
C9804	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9805	ECJ1VB0J475K	C 4.7UF, K, 6.3V	1	
C9806	ECGRL0G680ER	C 68PF, J, 4V	1	
C9807,08	ECJ3YB1E106M	C 10 UF, K, 25V	2	
C9809	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9815,16	ECGRL0G680ER	C 68PF, J, 4V	2	
C9817,18	ECJ3YB1E106M	C 10 UF, K, 25V	2	
C9822	F1J0J1060004	C 0.010UF, K, 16V	1	
C9823,24	ECJ3YB1E106M	C 10 UF, K, 25V	2	
C9825	ECJ1XC1H101K	C 100PF, K, 50V	1	
C9826	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9827	F1J0J1060004	C 0.010UF, K, 16V	1	
C9830-32	ECJ3XB1C106M	C 1.0UF, K, 16V	3	
C9833	ECJ3YB1E106M	C 10 UF, K, 25V	1	
C9837	ECJ3XB1C106M	C 1.0UF, K, 16V	1	
C9838	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9840	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9841,42	ECJ2VF1C105Z	C 1UF, Z, 16V	2	
C9843	ECJ1XF1C104Z	C 0.1UF, Z, 16V	1	
C9844	ECJ1VF1H103Z	C 0.010UF, Z, 50V	1	
C9845,46	ECJ1XF1C104Z	C 0.1UF, Z, 16V	2	
C9847,48	ECJ1VB1E104K	C 0.10UF, K, 25V	2	
C9880,81	ECJ1XB1H102K	C 1000UF, Z, 50V	2	
C9882	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9883	ECJ1VB1H822K	C 8200PF, K, 50V	1	
C9884	ECJ1VC1H100C	C 10PF, C, 50V	1	
C9885	ECJ1XB1H102K	C 1000UF, Z, 50V	1	
C9886	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9887	ECJ1VB0J475K	C 4.7UF, K, 6.3V	1	
C9891	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9896	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9897	ECJ1VB1H822K	C 8200PF, K, 50V	1	
C9898	ECJ1VC1H100C	C 10PF, C, 50V	1	
C9899	ECJ1XB1H102K	C 1000UF, Z, 50V	1	
C9926	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
C9967	ECJ1VB0J475K	C 4.7UF, K, 6.3V	1	
C9971	ECJ1XB1C104K	C 0.1UF, Z, 16V	1	
CA1-11	K1MN68BA0002	68P CONNECTOR	11	
CB1-11	K1MN68BA0002	68P CONNECTOR	11	
D3	K1KY40B00003	40P CONNECTOR	1	
D5	K1KB31BA0064	31P CONNECTOR	1	
D6	K1KA21A00011	21P CONNECTOR	1	
D20	K1KA20BA0296	20P CONNECTOR	1	
D25	K1KA20AA0009	20P CONNECTOR	1	
D31	K1MN80BA0076	80P CONNECTOR	1	
D32	K1MN55BA0076	55P CONNECTOR	1	
D33	K1MN68BA0076	68P CONNECTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D34	K1MN80BA0076	80P CONNECTOR	1	
D1106,07	MA729	DIODE	2	
D1109	B0JCCE000008	DIODE	1	
D1111-13	MA111	DIODE	3	
D1117	MA3036L	ZENER DIODE	1	
D1119	MA704A	DIODE	1	
D1120	MA728	DIODE	1	
D2309	MA111	DIODE	1	
D2512	MA8043LTX	ZENER DIODE	1	
D2520A	LN1271RALTR	LED	1	
D2524	MA8056-M	ZENER DIODE	1	
D2600-03	MA111	DIODE	4	
D2617	MA152	DIODE	1	
D2619-24	MA8140M	ZENER DIODE	6	
D2640-60	MA8140M	ZENER DIODE	21	
D2661	MA3X78900L	ZENER DIODE	1	
D2662	B0BC03900015	ZENER DIODE	1	
D2663,64	MA111	DIODE	2	
D2665	MA8110M	ZENER DIODE	1	
D3702	MA8140M	ZENER DIODE	1	
D3750	MA8039H	ZENER DIODE	1	
D4019-38	EZJZ0V80008B	VARISTOR	20	
D4041	EZJZ0V80008B	VARISTOR	1	
D4044,45	EZJZ0V80008B	VARISTOR	2	
D4047,48	MA3056M	ZENER DIODE	2	
D4049-52	B0HCMM000014	DIODE	4	
D5606	B0BC01100001	ZENER DIODE	1	
D5607	B0BC6R600005	ZENER DIODE	1	
D5610	B0BC4R700007	ZENER DIODE	1	
D5612	B0BC3R700006	ZENER DIODE	1	
D5634	MA111	DIODE	1	
D5635	MA3047H	ZENER DIODE	1	
D5637,38	MA152	DIODE	2	
D5639	MA3047H	ZENER DIODE	1	
D5640	MA3039H	ZENER DIODE	1	
D5641	MA152	DIODE	1	
D5642	MA3120M	ZENER DIODE	1	
D5643	MA152	DIODE	1	
D5644	MA3068M	ZENER DIODE	1	
D5646,47	MA152	DIODE	2	
D5649	MA111	DIODE	1	
D5801	B0JCME000037	DIODE	1	
D5804	MA3120M	ZENER DIODE	1	
D5805,06	MA152	DIODE	2	
D5807	MA111	DIODE	1	
D6001	B0HBSN000008	DIODE	1	
D6021,22	B0HBSN000008	DIODE	2	
D6024,25	B0ECHP000003	DIODE	2	
D6032	MA111	DIODE	1	
D6061-64	B0HBSN000008	DIODE	4	
D6071,72	B0HBSN000008	DIODE	2	
D6081-83	B0HBSN000008	DIODE	3	
D6091	B0HBSN000008	DIODE	1	
D6092	B0ECHP000003	DIODE	1	
D6101,02	B0JCME000037	DIODE	2	
D6105,06	B0JCME000037	DIODE	2	
D6110	MA111	DIODE	1	
D6131,32	B0ECHP000003	DIODE	2	
D6151-54	B0ECHP000003	DIODE	4	
D6191-93	B0ECHP000003	DIODE	3	
D6211	B0JCME000037	DIODE	1	
D6212	B0ECHP000003	DIODE	1	
D6221	B0ECHP000003	DIODE	1	
D6222,23	MA111	DIODE	2	
D6251,52	MA8330M	ZENER DIODE	2	
D6253	LNJ301MPUJA	LED	1	
D6254	MA8051L	ZENER DIODE	1	
D6255	MA111	DIODE	1	
D6302	B0JCME000037	DIODE	1	
D6304	B0ECHP000003	DIODE	1	
D6305	B0HCMM000014	DIODE	1	
D6317	B0JCME000037	DIODE	1	
D6318	B0ECHP000003	DIODE	1	
D6319	B0HCMM000014	DIODE	1	
D6320	B0HDSM000005	DIODE	1	
D6330,31	B0HDSM000005	DIODE	2	
D6334,35	B0HDSM000005	DIODE	2	
D6336	B0ECHP000003	DIODE	1	
D6337	B0HDSM000005	DIODE	1	
D6338,39	B0ECHP000003	DIODE	2	
D6346	B0HDSM000005	DIODE	1	
D6349	B0ECHP000003	DIODE	1	
D6350	B0HDSM000005	DIODE	1	
D6351,52	B0ECHP000003	DIODE	2	
D6371	B0HDSM000005	DIODE	1	
D6372,73	B0ECHP000003	DIODE	2	
D6386,87	MA152	DIODE	2	
D6401	B0HBSN000008	DIODE	1	
D6403	B0HBSN000008	DIODE	1	
D6431-33	MA3DF40000LZ	DIODE	3	
D6441	B0ECHP000003	DIODE	1	
D6451	B0ECHP000003	DIODE	1	
D6461-63	B0HBSN000008	DIODE	3	
D6466	MA111	DIODE	1	
D6471	B0HBSN000008	DIODE	1	
D6472	B0ECHP000003	DIODE	1	
D6477	MA111	DIODE	1	
D6478	B0HCKS000002	DIODE	1	
D6480	MA111	DIODE	1	
D6481-83	B0HBSN000008	DIODE	3	
D6491	MA3DF40000LZ	DIODE	1	
D6497	MA111	DIODE	1	
D6501,02	B0ECHP000003	DIODE	2	
D6521-24	B0ECHP000003	DIODE	4	
D6581,82	MA8330M	ZENER DIODE	2	
D6583	LNJ301MPUJA	LED	1	
D6584	MA8051L	ZENER DIODE	1	
D6585	MA111	DIODE	1	
D6601	MA8240M	ZENER DIODE	1	
D6602	B0ECHP000003	DIODE	1	
D6603	MA8240M	ZENER DIODE	1	
D6604	MA111	DIODE	1	
D6605	MA8051L	ZENER DIODE	1	
D6606	B0HCMM000014	DIODE	1	
D6607	MA111	DIODE	1	
D6610	MAZ81500ML	ZENER DIODE	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
D6611-14	MA111	DIODE	4	
D6619,20	B0HCKS000002	DIODE	2	
D6623-26	B0HDSM000005	DIODE	4	
D6641,42	B0HCKS000002	DIODE	2	
D6643	MA111	DIODE	1	
D6644	B0HCKS000002	DIODE	1	
D6661	MA111	DIODE	1	
D6662-64	MA8330M	ZENER DIODE	3	
D6665	MA8051L	ZENER DIODE	1	
D6666,67	MA111	DIODE	2	
D6671	MA111	DIODE	1	
D6682	B0HCMM000014	DIODE	1	
D6683,84	MA111	DIODE	2	
D6686,87	MA111	DIODE	2	
D6701,02	MA8056H	ZENER DIODE	2	
D6721	B0HCKS000002	DIODE	1	
D6723,24	B0JCME000037	DIODE	2	
D6725	B0ECHP000003	DIODE	1	
D6726-33	MA8056H	ZENER DIODE	8	
D6734	MA111	DIODE	1	
D6752	B0JCME000037	DIODE	1	
D6758	B0ECHP000003	DIODE	1	
D6760,61	MA111	DIODE	2	
D6771	B0JCME000037	DIODE	1	
D6773	B0HCKS000002	DIODE	1	
D6791	MA8200M	ZENER DIODE	1	
D6802	B0BC01000044	ZENER DIODE	1	
D6803	B0HCKS000002	DIODE	1	
D6804	B0ECHP000003	DIODE	1	
D6805	MA111	DIODE	1	
D6806	B0ECHP000003	DIODE	1	
D6807-10	B0HCMM000014	DIODE	4	
D6820-23	MA111	DIODE	4	
D6825	MA8330M	ZENER DIODE	1	
D6826	MA111	DIODE	1	
D6841	B0HCKS000002	DIODE	1	
D6842,43	MA111	DIODE	2	
D6859	B0ECHP000003	DIODE	1	
D6860	B0HCKS000002	DIODE	1	
D6861	MA8051L	ZENER DIODE	1	
D6862	MA111	DIODE	1	
D6871	MA8051L	ZENER DIODE	1	
D6872	MA111	DIODE	1	
D6901,02	MA8056H	ZENER DIODE	2	
D6903,04	B0ECHP000003	DIODE	2	
D6951,52	MA8056H	ZENER DIODE	2	
D6953,54	B0ECHP000003	DIODE	2	
D7101-08	B0HCMM000014	DIODE	8	
D7201-08	B0HCMM000014	DIODE	8	
D7209	B0HDSM000005	DIODE	1	
D7301-06	B0HCMM000014	DIODE	6	
D7401-06	B0HCMM000014	DIODE	6	
D7501-08	B0HCMM000014	DIODE	8	
D7509	B0HDSM000005	DIODE	1	
D7602	B0HCMM000014	DIODE	1	
D7610-16	B0HCMM000014	DIODE	7	
D8203,04	LNJ208R8ARA	LED	2	
D8208	K7JAAAB00001	DIODE	1	
D8224	B0JCME000037	DIODE	1	
D8225	B0JCDD000002	DIODE	1	
D8226	B0JCME000037	DIODE	1	
D8227	B0JCDD000002	DIODE	1	
D9017-19	MA3033L	ZENER DIODE	3	
D9020	MA728	DIODE	1	
D9035	MA728	DIODE	1	
D9100-03	B0JCGD000002	DIODE	4	
D9105,06	B0JCGD000002	DIODE	2	
D9110	B0JCGD000002	DIODE	1	
D9300,01	MA152K	DIODE	2	
D9400,01	MA152K	DIODE	2	
D9800	B0JCME000037	DIODE	1	
D9801	B0JCDD000002	DIODE	1	
D9802	MA728	DIODE	1	
D9804	MA152K	DIODE	1	
D9807,08	MA152K	DIODE	2	
D9812	B0JCME000037	DIODE	1	
D9813	B0JCDD000002	DIODE	1	
D9814	B0JCME000037	DIODE	1	
D9815	B0JCDD000002	DIODE	1	
DG1	K1KY80A00011	80P CONNECTOR	1	
DG2	K1KA11B00083	11P CONNECTOR	1	
DG3	K1KY40B00003	40P CONNECTOR	1	
DG5	K1KB21BA0063	21P CONNECTOR	1	
DG8,G9	K1FY119D0001	CONNECTOR	2	
DG15	K1KY40B00003	40P CONNECTOR	1	
DG20	K1MN40B00045	40P CONNECTOR	1	
DG22	K1KBB0A00009	CONNECTOR	1	
DT07	K1KA04BA0050	4P CONNECTOR	1	
DT10	K1KA13AA0105	13P CONNECTOR	1	
DT12	K1KAB0A00011	CONNECTOR	1	
FL2606-11	J0HABB000003	LC FILTER	6	
FL3710-12	J0MAB0000199	LC FILTER	3	
FL4009-11	J0HABH000012	LC FILTER	3	
FL7202,03	J0HABH000013	LC FILTER	2	
FL7501,02	J0HABH000013	LC FILTER	2	
FL8210,11	J0HAAA000013	LC FILTER	2	
FL8215	J0HAAC000045	LC FILTER	1	
FL8224-34	J0HAAC000045	LC FILTER	11	
FL8236,37	J0HAAC000045	LC FILTER	2	
FL8262,63	J0MAB0000164	LC FILTER	2	
FL8264,65	J0HAAC000045	LC FILTER	2	
FL9300	F1J1E1040022	LC FILTER	1	
FL9301	J0HABH000013	LC FILTER	1	
FL9302-04	F1J1E1040022	LC FILTER	3	
FL9305,06	J0HABH000013	LC FILTER	2	
FL9400,01	J0HABH000013	LC FILTER	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
FL9402-04	F1J1E1040022	LC FILTER	3	
FL9501, 02	J0HABH000013	LC FILTER	2	
FL9800, 01	J0HABH000013	LC FILTER	2	
FL9803, 04	J0HABH000012	LC FILTER	2	
FL9805-07	J0HABH000013	LC FILTER	3	
G1	K1KA12A00317	12P CONNECTOR	1	
G3	K1KA03BA0047	3P CONNECTOR	1	
G51	K1KA30AA0009	30P CONNECTOR	1	
GK3	K1KA03BA0061	3P CONNECTOR	1	
GS52	K1KA12A00317	12P CONNECTOR	1	
H1	K1KY80A00011	80P CONNECTOR	1	
H2	K1KA11AA0105	1P CONNECTOR	1	
H40	K1KA20AA0009	20P CONNECTOR	1	
H51	K1KA30AA0009	30P CONNECTOR	1	
HC01	K1KA21A00011	21P CONNECTOR	1	
HC06	K1KA07BA0047	7P CONNECTOR	1	
HC15	K1KY40B00003	40P CONNECTOR	1	
HC21	K1KA10AA0194	10P CONNECTOR	1	
HC22	K1KA11AA0194	11P CONNECTOR	1	
IC1101	TVRN840S	IC	1	PAVCA
IC1102	TVRN908S	IC	1	PAVCA
IC1103	MN103SC50RGL	IC	1	
IC1105, 06	C0JBAS000128	IC	2	
IC1108	C0EBF0000354	IC	1	
IC1110	C0CBCAD00016	IC	1	
IC1111	C0EBY0000041	IC	1	
IC2302	C1AB00002451	IC	1	
IC2304	C0ABBA000168	IC	1	
IC2306	C0ABBA000168	IC	1	
IC2601	C1AB00002123	IC	1	
IC2602	AN15862A-VT	IC	1	
IC2603	C1BB00001017	IC	1	
IC2604	C1BB00000969	IC	1	
IC2607	C0DBAJB00004	IC	1	
IC2608	C0ABBA000168	IC	1	
IC4013	C0CBCBF00009	IC	1	
IC4016	C0CBCAC00275	IC	1	
IC4018	C0CBCAC00275	IC	1	
IC4019	C1AB00002456	IC	1	
IC4022	TVRN856S	IC	1	PAVCA
IC4023	TVRN857S	IC	1	PAVCA
IC4025	C0FBBK000038	IC	1	
IC4026	C1AB00002535	IC	1	
IC4027	C0DBFFD00003	IC	1	
IC4028	C0ABBB000230	IC	1	
IC4029	C0CBCAC00282	IC	1	
IC4030	C0CBCBC00190	IC	1	
IC4032	C0DBGYY00052	IC	1	
IC4035	C0CBCAF00031	IC	1	
IC4036	C0JBAP000020	IC	1	
IC4037	MN84522-A	IC	1	
IC4038	C3ABQJ000048	IC	1	
IC5601	N0BG2DE00001	IC	1	
IC5602	EHMDD9851	LINEAR IC	1	
IC5604	C0DBZGC00067	IC	1	
IC5801	C0DBAZF00003	IC	1	
IC6131	C0ZBZ0000895	IC	1	
IC6151	C0ZBZ0001324	IC	1	
IC6191	C0ZBZ0000895	IC	1	
IC6211	C0ZBZ0001325	IC	1	
IC6221	C0DBEMB00005	IC	1	
IC6241	C0JBAZ000005	IC	1	
IC6251	NJM2903M	INTEGRATED CIRCUIT	1	
IC6281	C0DBEMB00005	IC	1	
IC6301	C0ZBZ0000895	IC	1	
IC6316	C0ZBZ0000895	IC	1	
IC6331	C0ZBZ0000895	IC	1	
IC6346	C0ZBZ0000895	IC	1	
IC6361	C0JBAZ000005	IC	1	
IC6386	NJM2903M	INTEGRATED CIRCUIT	1	
IC6471	C0DBEKA00003	IC	1	
IC6472	C0JBAA000377	IC	1	
IC6501	C0ZBZ0000895	IC	1	
IC6521	C0ZBZ0001324	IC	1	
IC6561, 62	C0JBAZ000005	IC	2	
IC6581	NJM2903M	INTEGRATED CIRCUIT	1	
IC6601	C0ZBZ0001325	IC	1	
IC6602	C0JBAB000715	IC	1	
IC6610	NJM2903M	INTEGRATED CIRCUIT	1	
IC6671	C0ZBZ0001325	IC	1	
IC6681	C0ZBZ0001325	IC	1	
IC6682	C0JBAA000377	IC	1	
IC6721, 22	C0JBAZ000994	IC	2	
IC6724, 25	C0CBADC00089	IC	2	
IC6751	C0CBADC00089	IC	1	
IC6752	C0ZBZ0001325	IC	1	
IC6753	C0JBAB000715	IC	1	
IC6771	C0CBADC00089	IC	1	
IC6772	C0ZBZ0001325	IC	1	
IC6773, 74	C0JBAA000377	IC	2	
IC6791	N0BF1FB00001	IC	1	
IC6801, 02	C0DBEMB00005	IC	2	
IC6803	C0DAAMH00005	IC	1	
IC6821	C0DBEMB00005	IC	1	
IC6841	C0DBEMB00005	IC	1	
IC6861	NJM2903M	INTEGRATED CIRCUIT	1	
IC6871	NJM2903M	INTEGRATED CIRCUIT	1	
IC6901-06	AN16071A-VT	IC	6	
IC6951-56	AN16071A-VT	IC	6	
IC7101-05	C0JBAZ001120	IC	5	
IC7201	C0JBAZ001120	IC	1	
IC7203-15	C0JBAZ001120	IC	13	
IC7301-04	C0JBAZ001120	IC	4	
IC7401-06	C0JBAZ001120	IC	6	
IC7501-14	C0JBAZ001120	IC	14	
IC7601-05	C0JBAZ001120	IC	5	
IC8009, 10	C3ABRG000061	IC	2	
IC8022	C0ZBZ0001052	IC	1	
IC8200	C0FBBK000038	IC	1	
IC8201	C0ABBB000190	IC	1	
IC8202	C0JBAS000245	IC	1	
IC8203, 04	C0JBAS000223	IC	2	
IC8205	C0ABBA000025	IC	1	
IC8206	C1AB00002471	IC	1	PAVCA
IC8211	MN884321B	IC	1	
IC8227	C0EBE0000336	IC	1	
IC8228	C0EBM0000027	IC	1	
IC8229	C3EBJC000055	IC	1	
IC8235	C0DBZFF00004	IC	1	
IC8240	MN2WS0025B-A	IC	1	
IC8244	C0FBAK000024	IC	1	
IC8246, 47	C0DBAYY00054	IC	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
IC8254	TVRN838S	IC	1	PAVCA
IC9001	TVRN968-1	IC	1	
IC9002	C0ZBZ0001330	IC	1	
IC9003	TVRN805-1	IC	1	
IC9007	TVRN969	IC	1	PAVCA
IC9011	C0EBF0000431	IC	1	
IC9200	C1ZBZ0003186	IC	1	
IC9300	MN84521-A	IC	1	
IC9301	C3ABQJ000051	IC	1	
IC9304	TVRN948S	IC	1	PAVCA
IC9400	MN84521-A	IC	1	
IC9401	C3ABQJ000051	IC	1	
IC9402	C0JBAZ002614	IC	1	
IC9500	C1ZBZ0002599	IC	1	
IC9503-05	C0JBAZ001120	IC	3	
IC9602	PST9128NR	IC (LOGIC)	1	
IC9603	C0JBAZ001120	IC	1	
IC9800	C0DBAYY00054	IC	1	
IC9801	C0DBZFG00066	IC	1	
IC9802, 03	C0JBAZ001120	IC	2	
IC9806	C0DBAHD00011	IC	1	
IC9807	C0DBAYY00054	IC	1	
IC9809	C0DBAYY00054	IC	1	
JK2601	K1U939A00003	TERMINAL BOARD	1	PAVCA
JK2603	K2HA204A0041	JACK	1	
JK3701B	K4AK13B00001	TERMINAL BOARD	1	PAVCA
JK7701	K1NA09E00080	9P CONNECTOR	1	
JS1100-02	ERJ2GE0R00	M 0.0 OHM, J,0.063W	3	
JS2300-03	ERJ6GEY0R00	M 0 OHM, 1/10W	4	
JS2319	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JS2331	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JS2606, 07	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
JS2614-17	ERJ6GEY0R00	M 0 OHM, 1/10W	4	
JS2619	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
JS2629, 30	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
JS2632-34	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
JS2640-42	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
JS2645-47	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
JS2650, 51	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
JS2661-63	ERJ6GEY0R00	M 0 OHM, 1/10W	3	
JS2714-25	ERJ6GEY0R00	M 0 OHM, 1/10W	12	
JS2740-45	ERJ6GEY0R00	M 0 OHM, 1/10W	6	
JS3702	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JS3704, 05	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
JS3707, 08	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
JS4016, 17	ERJ2GE0R00	M 0.0 OHM, J,0.063W	2	
JS4022-24	ERJ2GE0R00	M 0.0 OHM, J,0.063W	3	
JS4027, 28	ERJ2GE0R00	M 0.0 OHM, J,0.063W	2	
JS4033-40	ERJ2GE0R00	M 0.0 OHM, J,0.063W	8	
JS4104	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
JS4111	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JS4118	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
JS4120	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
JS5600	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
JS6341	ERD25V0T	M OHM, 1/10W	1	
JS7701	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
K1	K1KY12B00001	12P CONNECTOR	1	
K2	K1KA02BA0061	2P CONNECTOR	1	
L1101-04	J0JHC0000078	CHIP INDUCTOR	4	
L1107	J0JHC0000078	CHIP INDUCTOR	1	
L1109	J0JHC0000078	CHIP INDUCTOR	1	
L2300-03	G0C330MA0049	PEAKING COIL	4	
L2308	TALL08N3R9MA	INDUCTION COIL	1	
L2616	J0JHC0000078	CHIP INDUCTOR	1	
L2625	J0JHC0000078	CHIP INDUCTOR	1	
L2632	G0A2R7ZA0021	CHOKE COIL	1	
L2633	G1C100MA0072	INDUCTION COIL	1	
L2634	G1C470MA0077	INDUCTION COIL	1	
L2636	J0JHC0000078	CHIP INDUCTOR	1	
L4023	J0JHC0000078	CHIP INDUCTOR	1	
L4029	J0JHC0000078	CHIP INDUCTOR	1	
L4031	J0JHC0000078	CHIP INDUCTOR	1	
L4038	J0JHC0000078	CHIP INDUCTOR	1	
L4040-46	J0JHC0000078	CHIP INDUCTOR	7	
L4048	J0JHC0000078	CHIP INDUCTOR	1	
L4049	J0JBC0000080	CHIP INDUCTOR	1	
L4050,51	J0JHC0000078	CHIP INDUCTOR	2	
L4052	J0JHC0000045	CHIP INDUCTOR	1	
L4053-55	J0JHC0000078	CHIP INDUCTOR	3	
L4056,57	J0JCC0000077	CHIP INDUCTOR	2	
L4060,61	J0JCC0000077	CHIP INDUCTOR	2	
L4065,66	J0JHC0000078	CHIP INDUCTOR	2	
L4068-70	J0JHC0000078	CHIP INDUCTOR	3	
L4071	J0JBC0000080	CHIP INDUCTOR	1	
L4073	J0JHC0000078	CHIP INDUCTOR	1	
L4075,76	J0JHC0000078	CHIP INDUCTOR	2	
L4077	J0JCC0000077	CHIP INDUCTOR	1	
L4078	J0JHC0000078	CHIP INDUCTOR	1	
L5602	TALL08N2R7MA	INDUCTION COIL	1	
L5604	TALL08N2R7MA	INDUCTION COIL	1	
L5606,07	G0A220GA0002	CHOKE COIL	2	
L5609	G0A220GA0002	CHOKE COIL	1	
L5612	TALL08N2R7MA	INDUCTION COIL	1	
L5615	TALL08N150KA	INDUCTION COIL	1	
L5621	G1C330MA0234	INDUCTION COIL	1	
L5622,23	G1C150MA0234	INDUCTION COIL	2	
L5624	G1C330MA0234	INDUCTION COIL	1	
L5651	G0A220GA0002	CHOKE COIL	1	
L5801	G0C101K00023	PEAKING COIL	1	
L5802	TALL08N101KA	INDUCTION COIL	1	
L6001-04	G0CR60KA0118	PEAKING COIL	4	
L6011-15	G0C1R6KA0119	PEAKING COIL	5	
L6040	G0ZZ00002183	PEAKING COIL	1	
L6061-75	G0ZZ00002183	PEAKING COIL	15	
L6082	G0ZZ00002183	PEAKING COIL	1	
L6084	G0ZZ00002183	PEAKING COIL	1	
L6086	G0ZZ00002183	PEAKING COIL	1	
L6088	G0ZZ00002183	PEAKING COIL	1	
L6090	G0ZZ00002183	PEAKING COIL	1	
L6092	G0ZZ00002183	PEAKING COIL	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
L6101,02	J0JJC0000011	CHIP INDUCTOR	2	
L6103	G0ZZ00002183	PEAKING COIL	1	
L6105,06	J0JJC0000011	CHIP INDUCTOR	2	
L6211,12	J0JJC0000011	CHIP INDUCTOR	2	
L6221	G0ZZ00002183	PEAKING COIL	1	
L6241	G0ZZ00002183	PEAKING COIL	1	
L6262	G0ZZ00002183	PEAKING COIL	1	
L6271,72	G0ZZ00002183	PEAKING COIL	2	
L6291	G0ZZ00002183	PEAKING COIL	1	
L6302,03	J0JJC0000011	CHIP INDUCTOR	2	
L6310,11	G0CR60KA0118	PEAKING COIL	2	
L6315	G0ZZ00002183	PEAKING COIL	1	
L6317	J0JJC0000011	CHIP INDUCTOR	1	
L6330	G0ZZ00002183	PEAKING COIL	1	
L6331,32	J0JJC0000011	CHIP INDUCTOR	2	
L6338,39	J0JJC0000011	CHIP INDUCTOR	2	
L6346,47	J0JJC0000011	CHIP INDUCTOR	2	
L6356-58	G0CR60KA0118	PEAKING COIL	3	
L6386	G0ZZ00002183	PEAKING COIL	1	
L6398,99	J0JJC0000011	CHIP INDUCTOR	2	
L6401-04	G0CR60KA0118	PEAKING COIL	4	
L6411-15	G0C1R6KA0119	PEAKING COIL	5	
L6451-54	G0ZZ00002183	PEAKING COIL	4	
L6461-68	G0ZZ00002183	PEAKING COIL	8	
L6472,73	G0ZZ00002183	PEAKING COIL	2	
L6481-88	G0ZZ00002183	PEAKING COIL	8	
L6491-94	G0ZZ00002183	PEAKING COIL	4	
L6591,92	G0ZZ00002183	PEAKING COIL	2	
L6601,02	G0ZZ00002183	PEAKING COIL	2	
L6801,02	J0JJC0000011	CHIP INDUCTOR	2	
L6841	J0JJC0000011	CHIP INDUCTOR	1	
L7101-08	J0JJC0000011	CHIP INDUCTOR	8	
L7201-08	J0JJC0000011	CHIP INDUCTOR	8	
L7301-06	J0JJC0000011	CHIP INDUCTOR	6	
L7401-06	J0JJC0000011	CHIP INDUCTOR	6	
L7501-08	J0JJC0000011	CHIP INDUCTOR	8	
L7609-16	J0JJC0000011	CHIP INDUCTOR	8	
L7721	J0JCC0000089	CHIP INDUCTOR	1	
L8096	J0JHC0000045	CHIP INDUCTOR	1	
L8141-43	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
L8200-03	J0JHC0000045	CHIP INDUCTOR	4	
L8209	J0JHC0000045	CHIP INDUCTOR	1	
L8211	ELJNA1R0JFB	INDUCTION COIL	1	
L8221	J0JHC0000045	CHIP INDUCTOR	1	
L8223-25	J0JHC0000045	CHIP INDUCTOR	3	
L8239	J0JCC0000241	CHIP INDUCTOR	1	
L8241	J0JHC0000045	CHIP INDUCTOR	1	
L8242	J0JCC0000078	CHIP INDUCTOR	1	
L8243	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
L8244	J0JHC0000045	CHIP INDUCTOR	1	
L8250	J0JHC0000045	CHIP INDUCTOR	1	
L8253-56	TSK1032	BEAD CHOKE	4	
L8258	J0JHC0000045	CHIP INDUCTOR	1	
L8264-68	J0JHC0000045	CHIP INDUCTOR	5	
L8283-85	J0JHC0000045	CHIP INDUCTOR	3	
L8288,89	J0JHC0000045	CHIP INDUCTOR	2	
L8290	G1C3R3ZA0083	INDUCTION COIL	1	
L8291	G1C100MA0077	INDUCTION COIL	1	
L8292	G1C1R5ZA0083	INDUCTION COIL	1	
L8293	G1C100MA0077	INDUCTION COIL	1	
L8294	J0JHC0000034	CHIP INDUCTOR	1	
L8297	J0JHC0000045	CHIP INDUCTOR	1	
L8298,99	TSK1032	BEAD CHOKE	2	
L8303,04	G1CR22JA0020	INDUCTION COIL	2	PAVCA
L8305	G1CR39JA0020	INDUCTION COIL	1	PAVCA
L8306	J0JHC0000045	CHIP INDUCTOR	1	
L9501,02	J0JHC0000078	CHIP INDUCTOR	2	
L9503	G1C150KA0038	INDUCTION COIL	1	
L9800	G1C3R0MA0248	INDUCTION COIL	1	
L9801,02	G1C2R2MA0241	INDUCTION COIL	2	
L9810	J0JHC0000045	CHIP INDUCTOR	1	
PA2	K1KA05AA0192	5P CONNECTOR	1	
PA5	K1KA11AA0194	11P CONNECTOR	1	
PA10	K1KA06A00452	6P CONNECTOR	1	
PA20	K1MN40A00024	40P CONNECTOR	1	
PA31-34	K1KA03AA0192	3P CONNECTOR	4	
PA40	K1KA20AA0009	20P CONNECTOR	1	
PA1101	K5H8012A0023	FUSE	1	
PA9800	K5H4022A0023	FUSE	1	
PC6480	B3PBA0000223	IC	1	
PC6701-03	B3PBA0000397	IC	3	
PC6704	K7GBZEE00007	PHOTO COUPLER	1	
PC6705	B3PBA0000397	IC	1	
PC6760	B3PBA0000223	IC	1	
PC6801	B3PBA0000223	IC	1	
PC6861	B3PBA0000223	IC	1	
PC6871	B3PBA0000223	IC	1	
Q1100-03	B1ABDF000034	TRANSISTOR	4	
Q1106-08	B1ABDF000034	TRANSISTOR	3	
Q1109,10	B1CBHD000002	FET	2	
Q1111	B1ABDF000034	TRANSISTOR	1	
Q1114	B1ABDF000034	TRANSISTOR	1	
Q1116	B1ABDF000034	TRANSISTOR	1	
Q1125	2SA207700L	TRANSISTOR	1	
Q1130	B1ABDF000034	TRANSISTOR	1	
Q1134	B1ABDF000034	TRANSISTOR	1	
Q1137	B1ABDF000034	TRANSISTOR	1	
Q1139-43	B1ABDF000034	TRANSISTOR	5	
Q2300	2SA207700L	TRANSISTOR	1	
Q2301-03	2SD601A	TRANSISTOR	3	
Q2306,07	2SA207700L	TRANSISTOR	2	
Q2510,11	2SD601A	TRANSISTOR	2	
Q2607	2SC584500L	TRANSISTOR	1	
Q2608,09	2SD601A	TRANSISTOR	2	
Q2611	2SD601A	TRANSISTOR	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q2612	2SB709A	TRANSISTOR	1	
Q2613	2SC584500L	TRANSISTOR	1	
Q2615	2SC584500L	TRANSISTOR	1	
Q2617	2SC584500L	TRANSISTOR	1	
Q2618,19	2SD601A	TRANSISTOR	2	
Q2624	2SC584500L	TRANSISTOR	1	
Q2625	2SK3065T100	FET	1	
Q2626	2SA207700L	TRANSISTOR	1	
Q4050	B1ABDF000034	TRANSISTOR	1	
Q4056-59	2SA207700L	TRANSISTOR	4	
Q4065-69	B1ABDF000034	TRANSISTOR	5	
Q4070,71	B1MBACA00008	TRANSISTOR	2	
Q4082,83	2SK137400L	TRANSISTOR	2	PAVCA
Q4084	B1ABDF000034	TRANSISTOR	1	
Q4919	B1ABDF000034	TRANSISTOR	1	
Q4920	2SA207700L	TRANSISTOR	1	
Q5601	B1DHDC000028	TRANSISTOR	1	
Q5602	2SD601A	TRANSISTOR	1	
Q5603	B1DHDC000028	TRANSISTOR	1	
Q5604,05	2SD601A	TRANSISTOR	2	
Q5610	2SD601A	TRANSISTOR	1	
Q5613	2SD601A	TRANSISTOR	1	
Q5641-43	2SA207700L	TRANSISTOR	3	
Q5644	2SD601A	TRANSISTOR	1	
Q6001-05	2PG0010000RP	TRANSISTOR	5	
Q6021-25	2PG0010000RP	TRANSISTOR	5	
Q6031	B1ADRD000001	TRANSISTOR	1	
Q6041-44	2PG0010000RP	TRANSISTOR	4	
Q6051-53	2PG0010000RP	TRANSISTOR	3	
Q6101,02	B1DFKM000002	TRANSISTOR	2	
Q6103	B1ABNF000006	TRANSISTOR	1	
Q6104	B1ADNF000006	TRANSISTOR	1	
Q6105,06	B1DFKM000002	TRANSISTOR	2	
Q6111	2SK326800L	FET	1	
Q6112	B1DFKM000002	TRANSISTOR	1	
Q6114	B1DFKM000002	TRANSISTOR	1	
Q6141	B1ABNF000006	TRANSISTOR	1	
Q6142	B1ADNF000006	TRANSISTOR	1	
Q6143	B1ABNF000006	TRANSISTOR	1	
Q6144	B1ADNF000006	TRANSISTOR	1	
Q6146	B1ABNF000006	TRANSISTOR	1	
Q6147	B1ADNF000006	TRANSISTOR	1	
Q6148	B1ABNF000006	TRANSISTOR	1	
Q6149	B1ADNF000006	TRANSISTOR	1	
Q6171	2SD2185	TRANSISTOR	1	
Q6172	B1ADRD000001	TRANSISTOR	1	
Q6181	2SD2185	TRANSISTOR	1	
Q6212	B1ABNF000006	TRANSISTOR	1	
Q6213	B1ADNF000006	TRANSISTOR	1	
Q6221	2SD1263A	TRANSISTOR	1	
Q6222	2SC3063	TRANSISTOR	1	
Q6251	2SD601A	TRANSISTOR	1	
Q6281	B1ABNF000006	TRANSISTOR	1	
Q6282	B1ADNF000006	TRANSISTOR	1	
Q6302,03	B1DFKL000001	TRANSISTOR	2	
Q6306	B1ABNF000006	TRANSISTOR	1	
Q6307	B1ADNF000006	TRANSISTOR	1	
Q6317	B1DFKL000001	TRANSISTOR	1	
Q6320	B1ABNF000006	TRANSISTOR	1	
Q6321	B1ADNF000006	TRANSISTOR	1	
Q6331	2SK326900L	FET	1	
Q6336	B1ABNF000006	TRANSISTOR	1	
Q6337	B1ADNF000006	TRANSISTOR	1	
Q6346	2SK326900L	FET	1	
Q6371	2SB1193000LB	TRANSISTOR	1	
Q6401-05	2PG0010000RP	TRANSISTOR	5	
Q6422-26	2PG0030000RP	TRANSISTOR	5	
Q6441-43	2PG0010000RP	TRANSISTOR	3	
Q6451-53	2PG0030000RP	TRANSISTOR	3	
Q6471	B1CHGD000006	TRANSISTOR	1	
Q6511	B1ABNF000006	TRANSISTOR	1	
Q6512	B1ADNF000006	TRANSISTOR	1	
Q6513	B1ABNF000006	TRANSISTOR	1	
Q6514	B1ADNF000006	TRANSISTOR	1	
Q6516	B1ABNF000006	TRANSISTOR	1	
Q6517	B1ADNF000006	TRANSISTOR	1	
Q6518	B1ABNF000006	TRANSISTOR	1	
Q6519	B1ADNF000006	TRANSISTOR	1	
Q6531	2SD2185	TRANSISTOR	1	
Q6532	B1ADRD000001	TRANSISTOR	1	
Q6551	2SD2185	TRANSISTOR	1	
Q6552	B1ADRD000001	TRANSISTOR	1	
Q6581	2SD601A	TRANSISTOR	1	
Q6601	B1DFES000003	TRANSISTOR	1	
Q6602	2SD601A	TRANSISTOR	1	
Q6621	B1DFKM000001	TRANSISTOR	1	
Q6623	B1DFKM000001	TRANSISTOR	1	
Q6625	B1DFKM000001	TRANSISTOR	1	
Q6641,42	B1DFKM000001	TRANSISTOR	2	
Q6644,45	B1DFKM000001	TRANSISTOR	2	
Q6647	B1DFKM000001	TRANSISTOR	1	
Q6649	B1DFKM000001	TRANSISTOR	1	
Q6661	B1DEET000002	TRANSISTOR	1	
Q6662	2SD601A	TRANSISTOR	1	
Q6663	2SD2185	TRANSISTOR	1	
Q6671-73	B1DFES000003	TRANSISTOR	3	
Q6680	B1ADNF000006	TRANSISTOR	1	
Q6681,82	2SK389500L	FET	2	
Q6691	2SK620	FET	1	
Q6742,43	2SD601A	TRANSISTOR	2	
Q6744	2SK620	FET	1	
Q6762	B1ADNF000006	TRANSISTOR	1	
Q6781	B1ABNF000006	TRANSISTOR	1	
Q6782	B1ADNF000006	TRANSISTOR	1	
Q6791	2SD601A	TRANSISTOR	1	
Q6803	2SD814A	TRANSISTOR	1	
Q6821	2SD1263A	TRANSISTOR	1	
Q6822	2SC3063	TRANSISTOR	1	
Q6824	2SD601A	TRANSISTOR	1	
Q6841	2SD1263A	TRANSISTOR	1	
Q6842	2SC1473A	TRANSISTOR	1	
Q8209-11	B1ADDF000005	TRANSISTOR	3	
Q8217-20	B1ABDF000034	TRANSISTOR	4	
Q8227,28	B1ADDF000005	TRANSISTOR	2	
Q8229,30	B1MBDDA00003	TRANSISTOR	2	
Q9044	2SD601A	TRANSISTOR	1	
Q9046	2SD601A	TRANSISTOR	1	
Q9049	2SB709A	TRANSISTOR	1	
Q9050-54	2SD601A	TRANSISTOR	5	
Q9057,58	B1CBHD000002	FET	2	
Q9100	2SD601A	TRANSISTOR	1	
Q9200,01	B1CBHD000002	FET	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q9301,02	2SD601A	TRANSISTOR	2	
Q9400-02	2SD601A	TRANSISTOR	3	
Q9800,01	B1MBEDA00015	TRANSISTOR	2	
Q9803	B1MBEDA00015	TRANSISTOR	1	
Q9805,06	2SD601A	TRANSISTOR	2	
R1101	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
R1102,03	ERJ2GEJ102	M 1KOHM, J,0.063W	2	
R1105	ERJ2GEJ102	M 1KOHM, J,0.063W	1	
R1113	ERJ2GEJ332	M 3.3KOHM, J,0.063W	1	
R1116	ERJ2GEJ562	M 5.6KOHM,J,0.063W	1	
R1117	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R1121,22	ERJ2GEJ220	M 22 OHM, J,0.063W	2	
R1123	ERJ2GEJ472	M 4.7KOHM, J,0.063W	1	
R1124,25	ERJ2GEJ332	M 3.3KOHM, J,0.063W	2	
R1129,30	ERJ2GEJ473	M 47KOHM,J,0.063W	2	
R1131,32	ERJ2GEJ101	M 100 OHM, J,0.063W	2	
R1133,34	ERJ2GEJ102	M 1KOHM, J,0.063W	2	
R1135	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R1137	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
R1145	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
R1147,48	D1HG5608A002	NETWORK RESISTER	2	
R1150	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
R1153	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
R1154,55	ERJ2GEJ472	M 4.7KOHM, J,0.063W	2	
R1156	ERJ2GEJ104	M 100KOHM, J,0.063W	1	
R1157	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
R1158	ERJ2GEJ273	M 27KOHM ,J,0.063W	1	
R1159	ERJ2GEJ123X	M 12KOHM ,J,0.063W	1	
R1161	ERJ2GEJ102	M 1KOHM, J,0.063W	1	
R1164	ERJ2GEJ123X	M 12KOHM ,J,0.063W	1	
R1165	ERJ2GEJ153	M 15KOHM ,J,0.063W	1	
R1166,67	ERJ2GEJ101	M 100 OHM, J,0.063W	2	
R1168	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R1171	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
R1174	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
R1175	ERJ2GEJ563	M 56KOHM ,J,0.063W	1	
R1176	ERJ2GEJ123X	M 12KOHM ,J,0.063W	1	
R1177	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
R1181	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
R1182	ERJ2GEJ683	M 68KOHM, J,0.063W	1	
R1183	EXB28V680JX	RESISTOR ARRAY	1	
R1184	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R1187	EXB2HV680J	RESISTOR ARRAY	1	
R1188	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R1189,90	ERJ2GEJ473	M 47KOHM,J,0.063W	2	
R1197-99	ERJ2GEJ473	M 47KOHM,J,0.063W	3	
R1200	EXB2HV680J	RESISTOR ARRAY	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1203	ERJ2GEJ102	M 1KOHM, J,0.063W	1	
R1206	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1207	ERJ2GEJ104	M 100KOHM, J,0.063W	1	
R1214	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1215-17	ERJ2GEJ101	M 100 OHM, J,0.063W	3	
R1218	ERJ2GEJ680	M 68 OHM, J,0.063W	1	
R1220	ERJ2GEJ680	M 68 OHM, J,0.063W	1	
R1221	ERJ2GEJ332	M 3.3KOHM, J,0.063W	1	
R1222	ERJ2GEJ330	M 33 OHM, J,0.063W	1	
R1223	ERJ2GEJ102	M 1KOHM, J,0.063W	1	
R1224	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1225,26	ERJ2GEJ220	M 22 OHM, J,0.063W	2	
R1228	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
R1229	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R1230	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
R1231	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1232,33	ERJ2GEJ332	M 3.3KOHM, J,0.063W	2	
R1234	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R1235,36	ERJ2GEJ272	M 2.7KOHM, J,0.063W	2	
R1238	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1239	ERJ3EKF1202	M 12KOHM, 1/16W	1	
R1241	ERJ2GEJ822	M 8.2KOHM, J,0.063W	1	
R1246	ERJ2GEJ912	M 9.1KOHM, J,0.063W	1	
R1249	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1250	ERJ2GEJ224	M 220KOHM, J,0.063W	1	
R1251,52	EXB2HV101J	RESISTOR ARRAY	2	
R1256	ERJ2GEJ102	M 1KOHM, J,0.063W	1	
R1259	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
R1263,64	ERJ2GEJ101	M 100 OHM, J,0.063W	2	
R1268,69	ERJ2GE0R00	M 0.0 OHM, J,0.063W	2	
R1270,71	ERJ2GEJ220	M 22 OHM, J,0.063W	2	
R1275	ERJ3EKF7151	M7.15KOHM, 1/16W	1	
R1279,80	ERJ2GEJ220	M 22 OHM, J,0.063W	2	
R1281	ERJ2GEJ102	M 1KOHM, J,0.063W	1	
R1282	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1283	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
R1290	ERJ2GEJ472	M 4.7KOHM, J,0.063W	1	
R1292,93	ERJ2GEJ104	M 100KOHM, J,0.063W	2	
R1296,97	ERJ2GEJ473	M 47KOHM,J,0.063W	2	
R1303-06	ERJ2GEJ220	M 22 OHM, J,0.063W	4	
R1307	ERJ2GEJ104	M 100KOHM, J,0.063W	1	
R1308	ERJ2GEJ273	M 27KOHM ,J,0.063W	1	
R1309-12	ERJ2GEJ220	M 22 OHM, J,0.063W	4	
R1313,14	ERJ2GEJ272	M 2.7KOHM, J,0.063W	2	
R1315	ERJ2GEJ333	M 33KOHM, J,0.063W	1	
R1316	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R1318,19	ERJ2GEJ272	M 2.7KOHM, J,0.063W	2	
R1321	ERJ2GEJ153	M 15KOHM ,J,0.063W	1	
R1322	ERJ2GEJ100	M 10 OHM, J,0.063W	1	
R1324	ERJ2GEJ823	M 82KOHM, J,0.063W	1	
R1326	ERJ2GEJ104	M 100KOHM, J,0.063W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R1328	ERJ2GEJ683	M 68KOHM, J,0.063W	1	
R1330	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1332	ERJ2GEJ104	M 100KOHM, J,0.063W	1	
R1333	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
R1338	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1339	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
R1342	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1343	ERJ2GEJ561	M 60 OHM, J,0.063W	1	
R1346	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1351	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
R1352	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1354	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
R1356,57	ERJ2GEJ100	M 10 OHM, J,0.063W	2	
R1363	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1367	ERJ2GEJ333	M 33KOHM, J,0.063W	1	
R1368	ERJ2GEJ183	M 18KOHM ,J,0.063W	1	
R1372	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1375	ERJ2GEJ104	M 100KOHM, J,0.063W	1	
R1376	ERJ2GEJ273	M 27KOHM ,J,0.063W	1	
R1377	ERJ8GEY0R00	M 0 OHM, 1/8W	1	
R1384	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R1386	ERJ2GEJ104	M 100KOHM, J,0.063W	1	
R1387	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R1388	ERJ2GEJ563	M 56KOHM ,J,0.063W	1	
R1390	ERJ2GEJ563	M 56KOHM ,J,0.063W	1	
R1400	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R1405,06	ERJ2GEJ474	M 470KOHM, J,0.063W	2	
R1408	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R1409	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1410	ERJ2GEJ102	M 1KOHM, J,0.063W	1	
R1411	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1412,13	ERJ2GEJ104	M 100KOHM, J,0.063W	2	
R1426-33	ERJ8GEY0R00	M 0 OHM, 1/8W	8	
R1434	ERJ2GEJ471	M 470 OHM, J,0.063W	1	
R1436	ERJ2GEJ561	M 60 OHM, J,0.063W	1	
R1438	ERJ2GEJ680	M 68 OHM, J,0.063W	1	
R1440	ERJ2GEJ241	M 240 OHM, J,0.063W	1	
R1446	ERJ2GEJ471	M 470 OHM, J,0.063W	1	
R1449	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1453	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1454	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R1458,59	ERJ2GEJ101	M 100 OHM, J,0.063W	2	
R1464	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1466	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R1467	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1470	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R1472	ERJ2GEJ221	M 220 OHM, J,0.063W	1	
R1474	ERJ8GEY0R00	M 0 OHM, 1/8W	1	
R1478	ERJ2GEJ680	M 68 OHM, J,0.063W	1	
R1479	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1524	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1526	ERJ2GEJ102	M 1KOHM, J,0.063W	1	
R1527	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R1528	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
R1530	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R2310,11	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R2312	ERJ3EKF1002	M 10KOHM, 1/16W	1	
R2323,24	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R2325	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R2329	ERJ3EKF1003	M 100KOHM, 1/16W	1	
R2332	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R2341	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R2349	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R2357	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R2359	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R2360	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R2361	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R2363	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R2364	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R2365	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R2366	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R2368	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R2369	ERJ3GEYJ183	M 18KOHM,J,1/16W	1	
R2372,73	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R2375	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R2376	ERJ3EKF1002	M 10KOHM, 1/16W	1	
R2383	ERJ3EKF3301	M 3.3KOHM, 1/16W	1	
R2384	ERJ3EKF1151	M1.15KOHM, 1/16W	1	
R2387	ERJ3EKF1151	M1.15KOHM, 1/16W	1	
R2388	ERJ3EKF3301	M 3.3KOHM, 1/16W	1	
R2397,98	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R2401,02	ERJ3GEYJ331	M 330 OHM,J,1/16W	2	
R2403	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R2404,05	ERJ3GEYJ331	M 330 OHM,J,1/16W	2	
R2406	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R2407	ERJ3EKF1241	M1.24KOHM, 1/16W	1	
R2408	ERJ3EKF1181	M1.18KOHM, 1/16W	1	
R2409	ERJ3EKF2001	M 2KOHM, 1/16W	1	
R2410	ERJ3EKF7870	M 787 OHM, 1/16W	1	
R2421	ERJ3EKF2001	M 2KOHM, 1/16W	1	
R2422	ERJ3EKF7870	M 787 OHM, 1/16W	1	
R2516	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R2517	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R2520	ERJ3GEYJ224	M 220KOHM,J,1/16W	1	
R2524	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R2525	ERJ3EKF8200	M 820 OHM, 1/16W	1	
R2542	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R2557	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R2603	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R2604	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R2605	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R2606	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R2607	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R2608	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R2609	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R2610	ERJ3GEYJ184	M 180KOHM,J,1/16W	1	
R2611,12	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R2625	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R2640,41	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R2642	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R2643	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R2644	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R2650	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R2651	ERJ3EKF1201	M 1.2KOHM, 1/16W	1	
R2654	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R2655	ERJ3GEYJ683	M 68KOHM,J,1/16W	1	
R2656	ERJ3GEYJ183	M 18KOHM,J,1/16W	1	
R2657	ERJ3GEYJ683	M 68KOHM,J,1/16W	1	
R2658	ERJ3GEYJ123	M 12KOHM,J,1/16W	1	
R2659	ERJ3GEYJ823	M 82KOHM,J,1/16W	1	
R2660	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R2671	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R2672	ERJ3GEYJ123	M 12KOHM,J,1/16W	1	
R2673	ERJ3GEYJ823	M 82KOHM,J,1/16W	1	
R2674	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R2676	ERJ3GEYJ683	M 68KOHM,J,1/16W	1	
R2677	ERJ3GEYJ183	M 18KOHM,J,1/16W	1	
R2678	ERJ3GEYJ683	M 68KOHM,J,1/16W	1	
R2679	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R2680,81	ERJ3GEYJ184	M 180KOHM,J,1/16W	2	
R2682	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R2684	ERJ3GEYJ203	M 20KOHM,J,1/16W	1	
R2685	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R2686	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R2687	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R2690	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	1	
R2692	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R2693	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R2694	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R2695	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R2696	ERJ3GEYJ105	M 1MOHM,J,1/16W	1	
R2697	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R2698	ERJ3GEYJ182	M 1.8KOHM,J,1/16W	1	
R2700	ERJ3GEYJ274	M 270KOHM,J,1/16W	1	
R2701-03	ERJ3GEYJ473	M 47KOHM,J,1/16W	3	
R2704-07	ERJ3GEY0R00	M 0 OHM, 1/16W	4	
R2708	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R2709	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R2711-13	ERJ6ENF75R0	M 75 OHM, 1/10W	3	
R2714	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R2718	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R2719	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R2720	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R2724	ERJ14YJ821	M 820 OHM,J,1/16W	1	
R2726,27	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R2728	ERJ3GEYJ183	M 18KOHM,J,1/16W	1	
R2729-31	ERJ3GEYJ221	M 220 OHM,J,1/16W	3	
R2732	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R2733,34	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R2735	ERJ3GEYJ183	M 18KOHM,J,1/16W	1	
R2736	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R2737	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R2738	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R2741	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R2744	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R2747,48	ERJ3GEYJ223	M 22KOHM,J,1/16W	2	
R2749	ERJ3EKF2701	M 2.7KOHM, 1/16W	1	
R2750	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R2751	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R2753	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R2754	ERJ3EKF1201	M 1.2KOHM, 1/16W	1	
R2755	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R2756	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R2757	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R2758	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R2759	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R2760,61	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R2762,63	ERJ3EKF1300V	M 130 OHM, 1/16W	2	
R2764	ERJ3EKF1000	M 100 OHM, 1/16W	1	
R2767	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R2769,70	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R2771	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2772	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R2773	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R2775	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R2776	ERJ3EKF2201	M 2.2KOHM, 1/16W	1	
R2777-79	ERJ6ENF75R0	M 75 OHM, 1/10W	3	
R2781	ERJ3GEYJ821	M 820 OHM,J,1/16W	1	
R2783	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R2785	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R2786	ERJ3EKF8202	M 82KOHM, 1/16W	1	
R2787	ERJ3EKF1622V	M16.2KOHM, 1/16W	1	PAVCA
R2790	ERJ3EKF2201	M 2.2KOHM, 1/16W	1	
R2791	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R2792	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	1	
R2793-95	ERJ3GEYJ221	M 220 OHM,J,1/16W	3	
R2797-00	ERJ3GEYJ221	M 220 OHM,J,1/16W	4	
R2801,02	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	
R2803	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R2804	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R2807,08	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R2817,18	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R2820-25	ERJ3GEYJ221	M 220 OHM,J,1/16W	6	
R2830	ERJ3GEYJ823	M 82KOHM,J,1/16W	1	
R2832,33	ERJ3GEYJ221	M 220 OHM,J,1/16W	2	
R2834	ERJ3EKF6342	M6.34KOHM, 1/16W	1	
R2835	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R2837	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R2838	ERJ3EKF6342	M6.34KOHM, 1/16W	1	
R2839	ERJ3EKF1002	M 10KOHM, 1/16W	1	
R2840	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2842	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R2843	ERJ3EKF1002	M 10KOHM, 1/16W	1	
R2848-51	ERJ6GEYJ393	M 39KOHM,J,1/10W	4	
R2854	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R2855	ERJ6GEYJ393	M 39KOHM,J,1/10W	1	
R2856	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R2858	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R2859	ERJ3GEYJ393	M 39KOHM,J,1/16W	1	
R2860,61	ERJ6GEYJ393	M 39KOHM,J,1/10W	2	
R2862	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R2864	ERJ6GEYJ393	M 39KOHM,J,1/10W	1	
R2865	ERJ6ENF75R0	M 75 OHM, 1/10W	1	
R2868,69	ERJ6ENF75R0	M 75 OHM, 1/10W	2	
R2894	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R3709-13	ERJ3GEY0R00	M 0 OHM, 1/16W	5	
R3716,17	ERJ6GEYJ393	M 39KOHM,J,1/10W	2	
R3721	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R3732	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R3752	ERJ6ENF1741	M1.74KOHM, 1/10W	1	
R3753	ERJ6ENF1621	M1.62KOHM, 1/10W	1	
R3754	ERJ6ENF2321	M2.32KOHM, 1/10W	1	
R3756	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R3758	ERJ6ENF3161	M3.16KOHM, 1/10W	1	
R3759-64	ERJ6GEY0R00	M 0 OHM, 1/10W	6	
R3766,67	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R4001	ERJ3EKF1211	M1.21KOHM, 1/16W	1	
R4004	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R4008	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R4010	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R4017	ERJ2GEJ102	M 1KOHM, J,0.063W	1	
R4021	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R4024,25	ERJ2GE0R00	M 0.0 OHM, J,0.063W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R4026,27	ERJ2GEJ102	M 1KOHM, J,0.063W	2	
R4031-33	ERJ2GEJ103	M 10KOHM, J,0.063W	3	
R4037-39	D1HG1038A002	NETWORK RESISTER	3	
R4040,41	ERJ2GE0R00	M 0.0 OHM, J,0.063W	2	
R4042,43	ERJ2GEJ220	M 22 OHM, J,0.063W	2	
R4044	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
R4045,46	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R4047	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R4101	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R4257	ERJ3EKF3302	M 33KOHM, 1/16W	1	
R4265	ERJ3EKF3242	M32.4KOHM, 1/16W	1	
R4269	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R4271,72	ERJ2GE0R00	M 0.0 OHM, J,0.063W	2	
R4286,87	ERJ2GE0R00	M 0.0 OHM, J,0.063W	2	
R4293	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R4338-43	ERJ2GE0R00	M 0.0 OHM, J,0.063W	6	
R4465	ERJ2GEJ224	M 220KOHM, J,0.063W	1	
R4469	ERJ3EKF1500	M 150 OHM, 1/16W	1	
R4474	ERJ3EKF1211	M1.21KOHM, 1/16W	1	
R4480	ERJ3EKF4220	M 422 OHM, 1/10W	1	
R4481	ERJ3EKF2201	M 2.2KOHM, 1/16W	1	
R4482,83	ERJ3EKF1781	M1.78KOHM, 1/16W	2	
R4487	ERJ3EKF5600	M 560 OHM, 1/16W	1	
R4488	ERJ3EKF2201	M 2.2KOHM, 1/16W	1	
R4495	ERJ3EKF4302	M 43KOHM, 1/16W	1	
R4496-99	ERJ6GEYJ102	M 1KOHM,J,1/10W	4	
R4500	ERJ3EKF2702V	M27.0KOHM, 1/16W	1	
R4501,02	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R4503	ERJ3EKF1600	M 160 OHM, 1/16W	1	
R4507-13	ERJ2GE0R00	M 0.0 OHM, J,0.063W	7	
R4517	ERJ3EKF1371	M 13.7 OHM, 1/16W	1	
R4520	ERJ3EKF1691	M1.69KOHM, 1/16W	1	
R4521,22	ERJ2GEJ220	M 22 OHM, J,0.063W	2	
R4527	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
R4533	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
R4540	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R4542	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R4544	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
R4550	EXB28V220J	RESISTOR ARRAY	1	
R4552	EXB28V220J	RESISTOR ARRAY	1	
R4554	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
R4555	EXB28V220J	RESISTOR ARRAY	1	
R4560,61	EXB28V220J	RESISTOR ARRAY	2	
R4563-65	ERJ2GEJ220	M 22 OHM, J,0.063W	3	
R4568	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
R4583,84	ERJ2GEJ390	M 39 OHM, J,0.063W	2	
R4589-04	ERJ2GEJ2R2X	M 2.2OHM, J,0.063W	16	
R4605,06	ERJ2GEJ103	M 10KOHM, J,0.063W	2	
R4607	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
R4609,10	ERJ2GEJ103	M 10KOHM, J,0.063W	2	
R4612,13	ERJ2GEJ472	M 4.7KOHM, J,0.063W	2	
R4617,18	ERJ2GEJ472	M 4.7KOHM, J,0.063W	2	
R4619	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R4620	ERJ2GEJ560	M 56 OHM, J,0.063W	1	
R4621	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R4622	ERJ2GEJ560	M 56 OHM, J,0.063W	1	
R4624	ERJ2GEJ560	M 56 OHM, J,0.063W	1	
R4626	ERJ2GEJ560	M 56 OHM, J,0.063W	1	
R4628	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R4629-32	ERJ2GEJ472	M 4.7KOHM, J,0.063W	4	
R4633,34	ERJ2GEJ220	M 22 OHM, J,0.063W	2	
R4636	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R4637	ERJ2GEJ330	M 33 OHM, J,0.063W	1	
R4639	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R4640	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
R4641	EXB28V330J	RESISTOR ARRAY	1	
R4642-45	ERJ2GEJ220	M 22 OHM, J,0.063W	4	
R4647	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
R4648	ERJ2GEJ330	M 33 OHM, J,0.063W	1	
R4655	ERJ2GEJ330	M 33 OHM, J,0.063W	1	
R4657	ERJ2GEJ182	M 1.8KOHM, J,0.063W	1	
R4658	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
R4661	ERJ2GEJ472	M 4.7KOHM, J,0.063W	1	
R4662	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
R4665	EXB2HV220JV	RESISTOR ARRAY	1	
R4667	EXB2HV220JV	RESISTOR ARRAY	1	
R4668	ERJ2GEJ680	M 68 OHM, J,0.063W	1	
R4669	EXB2HV220JV	RESISTOR ARRAY	1	
R4672,73	ERJ2GEJ103	M 10KOHM, J,0.063W	2	
R4675	ERJ3EKF1802	M 18KOHM, 1/16W	1	
R4677	ERJ3EKF1802	M 18KOHM, 1/16W	1	
R4679,80	ERJ3EKF2202	M 22KOHM, 1/16W	2	
R4681,82	ERJ3EKF3302	M 33KOHM, 1/16W	2	
R4701	ERJ2GEJ680	M 68 OHM, J,0.063W	1	
R4704,05	ERJ2GEJ221	M 220 OHM, J,0.063W	2	
R4706	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R4708,09	ERJ2GEJ151	M 150 OHM, J,0.063W	2	
R4710	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R4711	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R4712	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R4713,14	EXB2HV221JV	RESISTOR ARRAY	2	
R4715	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R4718-20	ERJ2GEJ680	M 68 OHM, J,0.063W	3	
R4727	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R4729,30	ERJ3EKF1000	M 100 OHM, 1/16W	2	
R4731	ERJ3EKF1001	M 1KOHM, 1/16W	1	
R4732	ERJ3EKF4751	M4.75KOHM, 1/16W	1	
R4733	ERJ3EKF75R0	M 0.75HM, 1/16W	1	
R4734	ERJ2GEJ223	M 22KOHM, J,0.063W	1	
R4735	ERJ3EKF2001	M 2KOHM, 1/16W	1	
R4737	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R4738,39	ERJ2GEJ472	M 4.7KOHM, J,0.063W	2	
R4743-47	ERJ2GEJ680	M 68 OHM, J,0.063W	5	
R4749,50	EXB2HV680J	RESISTOR ARRAY	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R4751-54	ERJ2GEJ220	M 22 OHM, J,0.063W	4	
R4756-60	ERJ2GEJ680	M 68 OHM, J,0.063W	5	
R4762	EXB2HV680J	RESISTOR ARRAY	1	
R4763-65	ERJ2GE0R00	M 0.0 OHM, J,0.063W	3	
R4772	EXB2HV470JV	RESISTOR ARRAY	1	
R4773	ERJ2GEJ470	M 47 OHM, J,0.063W	1	
R4774	EXB2HV470JV	RESISTOR ARRAY	1	
R4775	ERJ2GEJ470	M 47 OHM, J,0.063W	1	
R4776	EXB2HV470JV	RESISTOR ARRAY	1	
R4777	ERJ2GEJ470	M 47 OHM, J,0.063W	1	
R4778	EXB2HV470JV	RESISTOR ARRAY	1	
R4779	ERJ2GEJ470	M 47 OHM, J,0.063W	1	
R4782	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
R4783	ERJ2GEJ472	M 4.7KOHM, J,0.063W	1	
R4784	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
R4785	ERJ2GEJ472	M 4.7KOHM, J,0.063W	1	
R4788	EXB2HV470JV	RESISTOR ARRAY	1	
R4791,92	ERJ2GEJ470	M 47 OHM, J,0.063W	2	
R4793,94	ERJ2GEJ220	M 22 OHM, J,0.063W	2	
R4796	EXB2HV470JV	RESISTOR ARRAY	1	
R4804	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
R4805,06	ERJ3EKF1001	M 1KOHM, 1/16W	2	
R4807-11	ERJ2GE0R00	M 0.0 OHM, J,0.063W	5	
R4814	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R4816,17	ERJ2GEJ223	M 22KOHM, J,0.063W	2	
R4819	ERJ2GEJ223	M 22KOHM, J,0.063W	1	
R4822	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R4823-25	EXB38VR000	RESISTOR ARRAY	3	
R4826,27	EXB2HVR000	RESISTOR ARRAY	2	
R4830,31	ERJ2GE0R00	M 0.0 OHM, J,0.063W	2	
R4832	ERJ2GEJ820	M 82 OHM, J,0.063W	1	
R4833	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
R4835	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
R4837	ERJ2GEJ220	M 22 OHM, J,0.063W	1	
R4838	ERJ2GEJ112	M 1.1KOHM, J,0.063W	1	
R4841	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R4846,47	ERJ2GEJ820	M 82 OHM, J,0.063W	2	
R4898	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R4900,01	ERJ2GEJ101	M 100 OHM, J,0.063W	2	
R4903	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R4904	ERJ2GEJ682	M 6.8KOHM, J,0.063W	1	
R4905	ERJ2GEJ152	M 1.5KOHM, J,0.063W	1	
R5601	ERJ3EKF1800	M 180 OHM, 1/16W	1	
R5603	ERJ3EKF1542	M15.4KOHM, 1/16W	1	
R5605	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R5606	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R5607	ERJ3EKF4531	M4.53KOHM, 1/16W	1	
R5609	ERJ3EKF2000	M 200 OHM, 1/16W	1	
R5615	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R5617	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R5619	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	
R5620	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R5621	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R5625-27	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	3	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R5632	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R5633	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R5634	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R5635	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R5637,38	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R5639	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R5640	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R5641	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R5642	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R5643	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R5644	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	1	
R5645	ERJ3EKF2201	M 2.2KOHM, 1/16W	1	
R5646	ERJ3EKF4701	M 4.7KOHM, 1/16W	1	
R5647	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R5648	ERJ3GEYJ392	M 3.9KOHM,J,1/16W	1	
R5649	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R5650	ERJ3GEYJ221	M 220 OHM,J,1/16W	1	
R5652	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R5653,54	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R5659	ERJ3EKF4700	M 470 OHM, 1/16W	1	
R5660	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R5662	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R5664	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R5665	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R5667-69	ERJ3GEYJ473	M 47KOHM,J,1/16W	3	
R5672	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R5676	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R5692	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R5693	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	
R5694	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R5695	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R5801	ERJ3EKF8450	M 845 OHM, 1/16W	1	
R5802	ERJ3EKF1302	M 23KOHM, 1/16W	1	
R5803	ERJ3EKF2001	M 2KOHM, 1/16W	1	
R5804	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R5805-08	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	4	
R5809	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R5822-24	ERJ3GEYJ101	M 100 OHM,J,1/16W	3	
R5826	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R5836	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R6001-10	ERJ14YJ150U	M 15 OHM, J,1/4W	10	
R6020	ERG3FJS101D	M 100 OHM, J, 3W	1	
R6021	ERJ14YJ150U	M 15 OHM, J,1/4W	1	
R6022	ERG3FJS101D	M 100 OHM, J, 3W	1	
R6023-30	ERJ14YJ150U	M 15 OHM, J,1/4W	8	
R6031,32	ERJ6ENF8202	M 82KOHM, 1/10W	2	
R6033	ERJ6ENF5602	M 56KOHM, 1/10W	1	
R6034	ERJ6ENF2702	M 27KOHM, 1/10W	1	
R6035	ERJ14YJ150U	M 15 OHM, J,1/4W	1	
R6041-48	ERJ14YJ150U	M 15 OHM, J,1/4W	8	
R6051-56	ERJ14YJ150U	M 15 OHM, J,1/4W	6	
R6061,62	ERJ6GEYJ224	M 220KOHM,J,1/10W	2	
R6102	D0GD101JA036	M 100 OHM,J,0.25W	1	
R6104	D0GD101JA036	M 100 OHM,J,0.25W	1	
R6106	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6107	D0GD101JA036	M 100 OHM,J,0.25W	1	
R6109	D0GD100JA036	M 10 OHM,J,0.25W	1	
R6110	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6111,12	D0GD470JA036	M 47 OHM,J,0.25W	2	
R6113	ERJ14YJ224	M 220KOHM, J,1/4W	1	
R6114	D0GD470JA036	M 47 OHM,J,0.25W	1	
R6116	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6131,32	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6133,34	ERJ6GEYJ151	M 150 OHM,J,1/10W	2	
R6135-38	D0GD100JA036	M 10 OHM,J,0.25W	4	
R6141-44	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R6146-49	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R6151,52	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6153,54	ERJ6GEYJ151	M 150 OHM,J,1/10W	2	
R6155,56	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R6157-60	D0GF1R0JA047	M 1.0 OHM,J, 0.33W	4	
R6171	D0GD100JA036	M 10 OHM,J,0.25W	1	
R6172,73	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6181	D0GD100JA036	M 10 OHM,J,0.25W	1	
R6182,83	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6191-94	ERJ6GEYJ101	M 100 OHM,J,1/10W	4	
R6195	D0GD104JA036	M 100KOHM,J,0.25W	1	
R6196	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6213	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6214	D0GD151JA036	M 150 OHM,J,0.25W	1	
R6220	ERDS2TC0	C 0 OHM, 1/4W	1	
R6222	ERG1FJS103D	M 10KOHM, J, 1W	1	
R6223	ERG2FJS123D	M 12KOHM, J, 2W	1	
R6225-27	ERJ6GEYJ163	M 16KOHM,J,1/10W	3	
R6228	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R6229	ERJ6GEYJ163	M 16KOHM,J,1/10W	1	
R6230	ERDS2TC0	C 0 OHM, 1/4W	1	
R6231	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6232	ERJ6ENF1201	M 1.2KOHM, 1/10W	1	
R6241	EXB38V470J	RESISTOR ARRAY	1	
R6242	EXB38V472J	RESISTOR ARRAY	1	
R6243	EXB38V470J	RESISTOR ARRAY	1	
R6244	EXB38V472J	RESISTOR ARRAY	1	
R6251	D0GD103JA036	M 10KOHM,J,0.25W	1	
R6252,53	ERJ6ENF3902	M 39KOHM, 1/10W	2	
R6254	ERJ6ENF6981	M6.98KOHM, 1/10W	1	
R6255,56	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	2	
R6257	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6258	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6281,82	ERG2FJS150D	M 15 OHM, J, 2W	2	
R6283,84	ERJ6GEYJ241	M 240 OHM,J,1/10W	2	
R6286	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6287	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6288	ERJ6ENF2491	M2.49KOHM, 1/10W	1	
R6289	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6291	ERJ6ENF2491	M2.49KOHM, 1/10W	1	
R6303-05	ERJ14YJ220	M 22 OHM, J,1/4W	3	
R6306,07	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6308	D0GD100JA036	M 10 OHM,J,0.25W	1	
R6309	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6310	D0GF1R0JA047	M 1.0 OHM,J, 0.33W	1	
R6311,12	ERJ6GEYJ151	M 150 OHM,J,1/10W	2	
R6313,14	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6318,19	ERJ14YJ220	M 22 OHM, J,1/4W	2	
R6320	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6321	D0GD100JA036	M 10 OHM,J,0.25W	1	
R6322	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6323	D0GF1R0JA047	M 1.0 OHM,J, 0.33W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6324,25	ERJ6GEYJ151	M 150 OHM,J,1/10W	2	
R6326,27	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6330	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6332	ERJ14YJ5R6U	M 6.2OHM, 1/4W	1	
R6335	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6336	D0GD470JA036	M 47 OHM,J,0.25W	1	
R6337	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6338,39	ERJ6GEYJ151	M 150 OHM,J,1/10W	2	
R6340	D0GF1R0JA047	M 1.0 OHM,J, 0.33W	1	
R6341	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6342	D0GF1R0JA047	M 1.0 OHM,J, 0.33W	1	
R6347	ERJ14YJ5R6U	M 6.2OHM, 1/4W	1	
R6352,53	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6354	D0GD470JA036	M 47 OHM,J,0.25W	1	
R6355,56	ERJ6GEYJ151	M 150 OHM,J,1/10W	2	
R6357	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6358	ERJ6GEYJ154	M 150KOHM,J,1/10W	1	
R6359	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R6361	EXB38V470J	RESISTOR ARRAY	1	
R6362	EXB38V472J	RESISTOR ARRAY	1	
R6363	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6364	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R6371-75	ERF15ZXJ271	W 270 OHM, 15W	5	
R6376	ERJ6ENF5901	M 5.9KOHM, 1/10W	1	
R6377	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R6378,79	ERJ6ENF1182	M11.8KOHM, 1/10W	2	
R6388	ERJ6GEYJ474	M 470KOHM,J,1/10W	1	
R6389	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6390,91	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	2	
R6392	ERJ6ENF3902	M 39KOHM, 1/10W	1	
R6393	ERJ6ENF9101	M 9.1KOHM, 1/10W	1	
R6394	ERJ6ENF7152	M71.5KOHM, 1/10W	1	
R6395	ERJ6ENF1072	M10.7KOHM, 1/10W	1	
R6396	ERJ6ENF4991	M4.99KOHM, 1/10W	1	
R6401-10	ERJ14YJ150U	M 15 OHM, J,1/4W	10	
R6423-32	ERJ14YJ150U	M 15 OHM, J,1/4W	10	
R6441-46	ERJ14YJ150U	M 15 OHM, J,1/4W	6	
R6451-56	ERJ14YJ150U	M 15 OHM, J,1/4W	6	
R6465	ERJ6ENF2702	M 27KOHM, 1/10W	1	
R6466	ERJ6ENF5602	M 56KOHM, 1/10W	1	
R6467,68	ERJ6ENF8202	M 82KOHM, 1/10W	2	
R6471	ERJ6GEYJ392	M 3.9KOHM,J,1/10W	1	
R6472	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6473	ERJ6GEYJ561	M 560 OHM,J,1/10W	1	
R6474	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6475,76	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	2	
R6477	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6478	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6479	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6501,02	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6503	D0GD100JA036	M 10 OHM,J,0.25W	1	
R6504,05	ERJ6GEYJ151	M 150 OHM,J,1/10W	2	
R6506	D0GD100JA036	M 10 OHM,J,0.25W	1	
R6507-09	D0GF1R0JA047	M 1.0 OHM,J, 0.33W	3	
R6511,12	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6513	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6514-17	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R6518	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6519,20	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6521,22	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6523,24	ERJ6GEYJ151	M 150 OHM,J,1/10W	2	
R6525,26	ERJ6GEY0R00	M 0 OHM, 1/10W	2	
R6531	D0GD100JA036	M 10 OHM,J,0.25W	1	
R6532,33	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6551	D0GD100JA036	M 10 OHM,J,0.25W	1	
R6552,53	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R6561-64	EXB38V470J	RESISTOR ARRAY	4	
R6565-68	EXB38V472J	RESISTOR ARRAY	4	
R6581	D0GD103JA036	M 10KOHM,J,0.25W	1	
R6582,83	ERJ6ENF3902	M 39KOHM, 1/10W	2	
R6584	ERJ6ENF7501	M 7.5KOHM, 1/10W	1	
R6585,86	ERJ6ENF1501	M 1.5KOHM, 1/10W	2	
R6587	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6588	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6590	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R6591	EXB38V472J	RESISTOR ARRAY	1	
R6592	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6603	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6604	D0GD151JA036	M 150 OHM,J,0.25W	1	
R6605	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6606	ERJ6ENF1001	M 1KOHM, 1/10W	1	
R6607	ERJ6GEYJ203	M 20KOHM,J,1/10W	1	
R6608,09	D0GF102JA047	M 1.0 KOHM,J,0.33W	2	
R6610	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6611	ERJ6GEYJ105	M 1MOHM,J,1/10W	1	
R6612	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R6613	ERJ6GEYJ105	M 1MOHM,J,1/10W	1	
R6614,15	D0GF243JA047	M 24 KOHM,J,0.33W	2	
R6616	ERJ6ENF1502	M 15KOHM, 1/10W	1	
R6617	ERJ6GEYJ105	M 1MOHM,J,1/10W	1	
R6618	ERJ6ENF1202	M 12KOHM, 1/10W	1	
R6619	ERJ6ENF1501	M 1.5KOHM, 1/10W	1	
R6620	D0D28R2JA021	M 8.2 OHM,J,5W	1	
R6621	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R6623	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R6625	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R6641,42	ERJ6GEYJ100	M 10 OHM,J,1/10W	2	
R6644,45	ERJ6GEYJ100	M 10 OHM,J,1/10W	2	
R6647	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6649	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6658	D0D1101JA009	M 100 OHM,J,1W	1	
R6659,60	ERJ6GEYJ224	M 220KOHM,J,1/10W	2	
R6661	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6662	ERJ6ENF3001	M 3KOHM, 1/10W	1	
R6663	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6664	D0GF222JA047	M 2.2 KOHM,J,0.33W	1	
R6665	ERJ14YJ470	M 47 OHM,J, 1/2W	1	
R6666	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6667,68	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	2	
R6671	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R6672	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6673-75	D0GD5R6JA059	M 5.6 OHM,J,0.25W	3	
R6682	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6683	D0GD151JA036	M 150 OHM,J,0.25W	1	
R6684	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6685	ERJ6GEYJ471	M 470 OHM,J,1/10W	1	
R6686	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6687	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6688	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6689	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6690	ERJ6GEYJ151	M 150 OHM,J,1/10W	1	
R6691	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6696,97	D0D32R2JA020	M 2.2 OHM,J,5W	2	
R6700-08	ERJ6GEYJ471	M 470 OHM,J,1/10W	9	
R6710-18	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	9	
R6721,22	EXB38V220J	RESISTOR ARRAY	2	
R6723	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R6724	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6742	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6743	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6744	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6745	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6746,47	D0GD103JA036	M 10KOHM,J,0.25W	2	
R6755	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6756-58	D0GD101JA059	M 100 OHM,J,0.25W	3	
R6759	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6760	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	1	
R6761	ERJ6GEYJ100	M 10 OHM,J,1/10W	1	
R6762	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6775,76	ERJ6GEYJ101	M 100 OHM,J,1/10W	2	
R6777	D0GD151JA036	M 150 OHM,J,0.25W	1	
R6781	ERJ6GEYJ470	M 47 OHM,J,1/10W	1	
R6782	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6791	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R6792	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6793	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6801	ERX3FJS8R2D	M 8.2 OHM, J, 3W	1	
R6802	ERG2FJS683D	M 68KOHM, J, 2W	1	
R6803	ERG2FJS563D	M 56KOHM, J, 2W	1	
R6806,07	ERX12SJ1R2	M 1.2 OHM, J,1/2W	2	
R6808	D0GD272JA059	M 2.7KOHM,J,0.25W	1	
R6809	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6810,11	ERJ6GEYJ333	M 33KOHM,J,1/10W	2	
R6812	ERJ6ENF2003	M 200KOHM, 1/10W	1	
R6813	ERJ6ENF9101	M 9.1KOHM, 1/10W	1	
R6814	ERJ6ENF5601	M 5.6KOHM, 1/10W	1	
R6816	ERJ6ENF2202	M 2.2KOHM, 1/10W	1	
R6817	ERJ6ENF1002	M 10KOHM, 1/10W	1	
R6819	ERJ6GEYJ681	M 680 OHM,J,1/10W	1	
R6820	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R6821	ERG2FJS221D	M 220 OHM, J, 2W	1	
R6822	ERJ12YJ104U	M 100KOHM, 1/2W	1	
R6823	ERG1FJS104D	M 100KOHM, J, 1W	1	
R6824	ERJ6GEYJ562	M 5.6KOHM,J,1/10W	1	
R6825,26	ERJ6ENF2203	M 220KOHM, 1/10W	2	
R6827	ERJ6ENF1432	M14.3KOHM, 1/10W	1	
R6828	ERJ6ENF4991	M4.99KOHM, 1/10W	1	
R6829,30	ERJ6GEYJ104	M 100KOHM,J,1/10W	2	
R6831	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R6832	ERDS1FJ4R7	C 4.7 OHM, J,1/2W	1	
R6833-36	ERJ6ENF5102	M 51KOHM, 1/10W	4	
R6837	ERJ6ENF5602	M 56KOHM, 1/10W	1	
R6839	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6841	ERJ12YJ153U	M 15KOHM, 1/2W	1	
R6842	ERJ14YJ433U	M 43KOHM, 1/2W	1	
R6843	ERJ6GEYJ623	M 62KOHM,J,1/10W	1	
R6844	D0D2101JA021	M 100 OHM,J,2W	1	
R6845	ERJ6GEYJ623	M 62KOHM,J,1/10W	1	
R6846,47	ERJ6GEYJ563	M 56KOHM,J,1/10W	2	
R6848	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R6849,50	ERJ6ENF6802	M 68KOHM, 1/10W	2	
R6851	ERJ6ENF1201	M 1.2KOHM, 1/10W	1	
R6852	ERJ6ENF2491	M2.49KOHM, 1/10W	1	
R6853	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6858	D0GD102JA059	M 1.0KOHM,J,0.25W	1	
R6860	D0D28R2JA021	M 8.2 OHM,J,5W	1	
R6861	ERJ6ENF3902	M 39KOHM, 1/10W	1	
R6862,63	ERJ6ENF4702	M 47KOHM, 1/10W	2	
R6864	ERJ6ENF8871	M8.87KOHM, 1/10W	1	
R6865,66	ERJ6ENF2201	M 2.2KOHM, 1/10W	2	
R6867	ERJ6GEYJ392	M 3.9KOHM,J,1/10W	1	
R6868	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R6869	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6870	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R6871-73	ERJ6ENF3902	M 39KOHM, 1/10W	3	
R6874	ERJ6ENF9531	M9.53KOHM, 1/10W	1	
R6875	ERJ6ENF3301	M 3.3KOHM, 1/10W	1	
R6876	ERJ6ENF1201	M 1.2KOHM, 1/10W	1	
R6877	ERJ6GEYJ392	M 3.9KOHM,J,1/10W	1	
R6878	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R6879	ERJ6GEYJ472	M 4.7KOHM,J,1/10W	1	
R6886-88	ERJ6GEYJ224	M 220KOHM,J,1/10W	3	
R6891	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R6901	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6902-04	ERJ3GEYJ220	M 22 OHM,J,1/16W	3	
R6905	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R6909	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R6913	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R6917	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R6924	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R6931-34	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R6935,36	ERJ8GEYJ224	M 220KOHM, J,1/8W	2	
R6951	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R6955	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R6959	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R6963	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R6967	ERJ6GEYJ221	M 220 OHM,J,1/10W	1	
R6971	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R6972-74	ERJ3GEYJ220	M 22 OHM,J,1/16W	3	
R6981-84	ERJ6GEYJ103	M 10KOHM,J,1/10W	4	
R6985,86	ERJ8GEYJ224	M 220KOHM, J,1/8W	2	
R7101-07	EXB38V471J	RESISTOR ARRAY	7	
R7108-13	EXB38V470J	RESISTOR ARRAY	6	
R7114,15	EXB38V471J	RESISTOR ARRAY	2	
R7116,17	EXB38V470J	RESISTOR ARRAY	2	
R7119	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7121	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R7124	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R7126	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7128	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7130	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7132	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7133,34	ERJ3GEYJ470	M 47 OHM,J,1/16W	2	
R7136	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7138	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7139-41	ERJ3GEYJ470	M 47 OHM,J,1/16W	3	
R7143	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7145	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7147	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R7148-51	ERJ3GEYJ220	M 22 OHM,J,1/16W	4	
R7152-55	ERJ3GEYJ470	M 47 OHM,J,1/16W	4	
R7167	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7168	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7205	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R7207	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7209	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7210	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R7212	EXB38V471J	RESISTOR ARRAY	1	
R7213	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R7215,16	EXB38V471J	RESISTOR ARRAY	2	
R7217,18	EXB38V470J	RESISTOR ARRAY	2	
R7219,20	EXB38V471J	RESISTOR ARRAY	2	
R7221,22	EXB38V470J	RESISTOR ARRAY	2	
R7227,28	ERJ3GEYJ470	M 47 OHM,J,1/16W	2	
R7231	ERJ12Y0R00	M 0 OHM,J, 1/2W	1	
R7232,33	EXB38V471J	RESISTOR ARRAY	2	
R7234-37	EXB38V470J	RESISTOR ARRAY	4	
R7238,39	EXB38V471J	RESISTOR ARRAY	2	
R7240	EXB38V470J	RESISTOR ARRAY	1	
R7241	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R7242	EXB38V470J	RESISTOR ARRAY	1	
R7244,45	EXB38V471J	RESISTOR ARRAY	2	
R7248,49	EXB38V470J	RESISTOR ARRAY	2	
R7251	EXB38V471J	RESISTOR ARRAY	1	
R7253	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7254	EXB38V470J	RESISTOR ARRAY	1	
R7256	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7258,59	EXB38V471J	RESISTOR ARRAY	2	
R7261,62	ERJ3GEYJ470	M 47 OHM,J,1/16W	2	
R7268	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7271,72	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R7274	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7275	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R7276-79	EXB38V471J	RESISTOR ARRAY	4	
R7280	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R7281-84	EXB38V471J	RESISTOR ARRAY	4	
R7286	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7287	ERJ12Y0R00	M 0 OHM,J, 1/2W	1	
R7290	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7291	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R7293	ERJ12Y0R00	M 0 OHM,J, 1/2W	1	
R7296,97	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R7298,99	EXB38V470J	RESISTOR ARRAY	2	
R7300	EXB38V471J	RESISTOR ARRAY	1	
R7301,02	EXB38V470J	RESISTOR ARRAY	2	
R7303	EXB38V470J	RESISTOR ARRAY	1	
R7304	EXB38V470J	RESISTOR ARRAY	1	(C3)
R7304	EXB38V471J	RESISTOR ARRAY	1	(C2)
R7305	EXB38V470J	RESISTOR ARRAY	1	(C3)
R7305	EXB38V471J	RESISTOR ARRAY	1	(C2)
R7306	EXB38V470J	RESISTOR ARRAY	1	
R7307	EXB38V470J	RESISTOR ARRAY	1	
R7311	EXB38V470J	RESISTOR ARRAY	1	
R7312-15	ERJ3GEYJ220	M 22 OHM,J,1/16W	4	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7316-19	ERJ3GEYJ470	M 47 OHM,J,1/16W	4	
R7320	EXB38V471J	RESISTOR ARRAY	1	
R7321	ERJ12Y0R00	M 0 OHM,J, 1/2W	1	
R7322,23	ERJ3GEYJ471	M 470 OHM,J,1/16W	2	
R7325-28	ERJ3GEYJ220	M 22 OHM,J,1/16W	4	
R7329,30	ERJ3GEYJ470	M 47 OHM,J,1/16W	2	
R7332,33	ERJ3GEYJ470	M 47 OHM,J,1/16W	2	
R7335	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7337	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7338-40	ERJ3GEYJ470	M 47 OHM,J,1/16W	3	
R7343,44	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	2	
R7347,48	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	2	
R7349,50	ERJ3GEYJ470	M 47 OHM,J,1/16W	2	
R7351	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7352	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7353	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7354-60	EXB38V471J	RESISTOR ARRAY	7	
R7401	EXB38V470J	RESISTOR ARRAY	1	
R7403	EXB38V471J	RESISTOR ARRAY	1	
R7405	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	
R7406	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	
R7411	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R7413	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7415	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7416	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R7421	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R7423	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7425	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7426	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R7431	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R7433	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7435	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7436	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R7437	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7441-44	ERJ3GEYJ220	M 22 OHM,J,1/16W	4	
R7445-47	ERJ3GEYJ470	M 47 OHM,J,1/16W	3	
R7448-53	EXB38V470J	RESISTOR ARRAY	6	
R7455-61	EXB38V471J	RESISTOR ARRAY	7	
R7462,63	EXB38V470J	RESISTOR ARRAY	2	
R7464,65	EXB38V471J	RESISTOR ARRAY	2	
R7466	ERJ3GEYJ471	M 470 OHM,J,1/16W	1	
R7467	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R7468,69	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R7501	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R7505	ERJ12Y0R00	M 0 OHM,J, 1/2W	1	
R7507	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7509	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7512	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R7516	ERJ12Y0R00	M 0 OHM,J, 1/2W	1	
R7518	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7520	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7523-25	ERJ3GEYJ470	M 47 OHM,J,1/16W	3	
R7529	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7531	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7534,35	ERJ3GEYJ470	M 47 OHM,J,1/16W	2	
R7539	ERJ12Y0R00	M 0 OHM,J, 1/2W	1	
R7541	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7543	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7546	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R7547,48	EXB38V471J	RESISTOR ARRAY	2	
R7549	EXB38V470J	RESISTOR ARRAY	1	
R7550,51	EXB38V471J	RESISTOR ARRAY	2	
R7552-54	EXB38V470J	RESISTOR ARRAY	3	
R7555-58	EXB38V471J	RESISTOR ARRAY	4	
R7559-62	EXB38V470J	RESISTOR ARRAY	4	
R7566,67	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R7571,72	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R7573-75	ERJ3GEYJ470	M 47 OHM,J,1/16W	3	
R7577,78	EXB38V471J	RESISTOR ARRAY	2	
R7579,80	EXB38V470J	RESISTOR ARRAY	2	
R7581,82	EXB38V471J	RESISTOR ARRAY	2	
R7583,84	EXB38V470J	RESISTOR ARRAY	2	
R7586,87	EXB38V471J	RESISTOR ARRAY	2	
R7588,89	EXB38V470J	RESISTOR ARRAY	2	
R7592,93	EXB38V471J	RESISTOR ARRAY	2	
R7594,95	EXB38V470J	RESISTOR ARRAY	2	
R7596-99	EXB38V471J	RESISTOR ARRAY	4	
R7600,01	EXB38V470J	RESISTOR ARRAY	2	
R7602	ERJ6GEYJ104	M 100KOHM,J,1/10W	1	(C6)
R7602	EXB38V470J	RESISTOR ARRAY	1	(C5)
R7603	ERJ6GEYJ223	M 22KOHM,J,1/10W	1	(C6)
R7603	EXB38V470J	RESISTOR ARRAY	1	(C5)
R7604,05	EXB38V471J	RESISTOR ARRAY	2	
R7606,07	EXB38V470J	RESISTOR ARRAY	2	
R7608,09	EXB38V471J	RESISTOR ARRAY	2	
R7610,11	EXB38V470J	RESISTOR ARRAY	2	
R7612,13	ERJ3GEYJ471	M 470 OHM,J,1/16W	2	
R7614,15	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R7616	EXB38V471J	RESISTOR ARRAY	1	
R7617,18	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R7619-21	ERJ3GEYJ470	M 47 OHM,J,1/16W	3	
R7622	EXB38V471J	RESISTOR ARRAY	1	
R7624	ERJ12Y0R00	M 0 OHM,J, 1/2W	1	(C5)
R7624	EXB38V470J	RESISTOR ARRAY	1	(C6)
R7625	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R7629	EXB38V470J	RESISTOR ARRAY	1	
R7630-33	ERJ3GEYJ220	M 22 OHM,J,1/16W	4	
R7634-36	ERJ3GEYJ470	M 47 OHM,J,1/16W	3	
R7637-42	EXB38V471J	RESISTOR ARRAY	6	
R7643,44	EXB38V470J	RESISTOR ARRAY	2	
R7645,46	EXB38V471J	RESISTOR ARRAY	2	
R7647	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R7649,50	ERJ3GEYJ470	M 47 OHM,J,1/16W	2	
R7653,54	ERJ3GEYJ470	M 47 OHM,J,1/16W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R7657,58	ERJ3GEYJ470	M 47 OHM,J,1/16W	2	
R7661,62	ERJ3GEYJ470	M 47 OHM,J,1/16W	2	
R7665	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R7675	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7677	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7681	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7683	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7687	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7689	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7693	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7695	ERJ12YJ2R2	M 2.2 OHM, J,1/2W	1	
R7696	EXB38V471J	RESISTOR ARRAY	1	
R7701	ERJ3GEYJ121	M 120 OHM,J,1/16W	1	
R7702	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7703-05	ERJ3GEYJ121	M 120 OHM,J,1/16W	3	
R7706	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7708	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7709	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R7710	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R7713	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R7716	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R7731	ERJ3GEYJ121	M 120 OHM,J,1/16W	1	
R7792-99	ERJ3GEY0R00	M 0 OHM, 1/16W	8	
R8137	ERJ2GEJ121	M 120 OHM, J,0.063W	1	
R8140,41	ERJ3EKF1001	M 1KOHM, 1/16W	2	
R8144-47	D1HG5608A002	NETWORK RESISTER	4	
R8148,49	D1HG3908A002	NETWORK RESISTER	2	
R8150-62	ERJ2GEJ390	M 39 OHM, J,0.063W	13	
R8163-66	ERJ2GEJ560	M 56 OHM, J,0.063W	4	
R8200-03	ERJ2GE0R00	M 0.0 OHM, J,0.063W	4	
R8206	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R8207	ERJ2GEJ562	M 5.6KOHM,J,0.063W	1	
R8208	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R8209	ERJ2GEJ273	M 27KOHM ,J,0.063W	1	
R8210	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R8211	ERJ2GEJ472	M 4.7KOHM, J,0.063W	1	
R8216	ERJ2GEJ472	M 4.7KOHM, J,0.063W	1	
R8217	ERJ2GEJ562	M 5.6KOHM,J,0.063W	1	
R8218	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R8219	ERJ2GEJ153	M 15KOHM ,J,0.063W	1	
R8220	ERJ2GEJ102	M 1KOHM, J,0.063W	1	
R8228	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R8270	ERJ2GEJ221	M 220 OHM, J,0.063W	1	
R8272	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R8273,74	ERJ3GEYJ510	M 51 OHM,J,1/16W	2	
R8277	ERJ3EKF1202	M 12KOHM, 1/16W	1	
R8282	ERJ2GEJ102	M 1KOHM, J,0.063W	1	
R8285	ERJ2GEJ272	M 2.7KOHM, J,0.063W	1	
R8287	ERJ2GEJ272	M 2.7KOHM, J,0.063W	1	
R8288	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R8289,90	ERJ2GEJ103	M 10KOHM, J,0.063W	2	
R8291	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R8293	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R8297	ERJ2GEJ102	M 1KOHM, J,0.063W	1	
R8300	ERJ2GEJ272	M 2.7KOHM, J,0.063W	1	
R8301	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R8303	ERJ2GEJ272	M 2.7KOHM, J,0.063W	1	
R8304,05	ERJ2GE0R00	M 0.0 OHM, J,0.063W	2	
R8310,11	ERJ2GE0R00	M 0.0 OHM, J,0.063W	2	
R8312	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R8313	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R8314,15	ERJ2GEJ472	M 4.7KOHM, J,0.063W	2	
R8316-18	ERJ2GE0R00	M 0.0 OHM, J,0.063W	3	
R8322-25	ERJ2GEJ101	M 100 OHM, J,0.063W	4	
R8333-36	ERJ2GEJ101	M 100 OHM, J,0.063W	4	
R8338	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R8342	ERJ3EKF1002	M 10KOHM, 1/16W	1	
R8343	ERJ2GEJ181	M 180 OHM, J,0.063W	1	
R8344,45	ERJ2GEJ103	M 10KOHM, J,0.063W	2	
R8347	ERJ2GEJ221	M 220 OHM, J,0.063W	1	
R8349	ERJ2GEJ104	M 100KOHM, J,0.063W	1	
R8351	ERJ2GEJ392	M 3.9KOHM, J,0.063W	1	
R8354	ERJ2GEJ392	M 3.9KOHM, J,0.063W	1	
R8355	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R8366-69	ERJ2GE0R00	M 0.0 OHM, J,0.063W	4	
R8380	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R8417,18	D1HG1218A002	NETWORK RESISTER	2	
R8421	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R8424	ERJ3EKF2742	M27.4KOHM, 1/16W	1	
R8425	ERJ3EKF9311	M9.31KOHM, 1/16W	1	
R8426-28	ERJ2GEJ103	M 10KOHM, J,0.063W	3	
R8431	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R8433	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R8435	ERJ3EKF6191	M6.19KOHM, 1/16W	1	
R8436	ERJ3EKF4642	M46.4KOHM, 1/16W	1	
R8440	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R8455	ERJ2GEJ560	M 56 OHM, J,0.063W	1	
R8458	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R8460	ERJ2GEJ472	M 4.7KOHM, J,0.063W	1	
R8461	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R8462,63	ERJ2GEJ101	M 100 OHM, J,0.063W	2	
R8464,65	EXB2HV104JV	RESISTOR ARRAY	2	
R8468	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R8470	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R8471	ERJ2GEJ472	M 4.7KOHM, J,0.063W	1	
R8476	ERJ2GEJ104	M 100KOHM, J,0.063W	1	
R8478	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R8481	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R8488	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R8489	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
R8490	ERJ3GEY0R00	M 0 OHM, 1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R8491-94	ERJ2GEJ101	M 100 OHM, J,0.063W	4	
R8495	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R8496	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R8497-99	ERJ3GEYJ560	M 56 OHM,J,1/16W	3	
R8501	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R8503	ERJ3EKF1002	M 10KOHM, 1/16W	1	
R8504-06	ERJ2GEJ103	M 10KOHM, J,0.063W	3	
R8507-09	ERJ3EKF1002	M 10KOHM, 1/16W	3	
R8510	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R8511	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R8512-18	ERJ2GEJ103	M 10KOHM, J,0.063W	7	
R8519	ERJ2GEJ392	M 3.9KOHM, J,0.063W	1	
R8524	ERJ2GEJ222	M 2.2KOHM, J,0.063W	1	
R8525,26	ERJ2GEJ103	M 10KOHM, J,0.063W	2	
R8527	ERJ2GEJ392	M 3.9KOHM, J,0.063W	1	
R8528	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R8529,30	ERJ2GEJ103	M 10KOHM, J,0.063W	2	
R8531	EXB38V560J	RESISTOR ARRAY	1	
R8532-35	ERJ2GEJ560	M 56 OHM, J,0.063W	4	
R8536	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R8537	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R8538	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
R8539	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R8540	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R8541-47	ERJ2GEJ560	M 56 OHM, J,0.063W	7	
R8548	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R8550,51	ERJ2GE0R00	M 0.0 OHM, J,0.063W	2	
R8552	ERJ2GEJ560	M 56 OHM, J,0.063W	1	
R8553	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R8557	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R8558	ERJ2GEJ560	M 56 OHM, J,0.063W	1	
R8559	EXB38V560J	RESISTOR ARRAY	1	
R8560	ERJ2GEJ560	M 56 OHM, J,0.063W	1	
R8561	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R8562	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R8564,65	ERJ2GEJ103	M 10KOHM, J,0.063W	2	
R8566	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R8567	ERJ2GEJ560	M 56 OHM, J,0.063W	1	
R8568	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R8570-73	ERJ2GEJ560	M 56 OHM, J,0.063W	4	
R8574	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R8576-78	ERJ2GEJ330	M 33 OHM, J,0.063W	3	
R8582-89	ERJ2GEJ330	M 33 OHM, J,0.063W	8	
R8591-95	ERJ2GEJ330	M 33 OHM, J,0.063W	5	
R8596,97	D1HG33080001	NETWORK RESISTER	2	
R8598-00	D1HG5608A002	NETWORK RESISTER	3	
R8601	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R8602	ERJ2GEJ560	M 56 OHM, J,0.063W	1	
R8605-08	ERJ2GEJ103	M 10KOHM, J,0.063W	4	
R8610-15	ERJ2GEJ103	M 10KOHM, J,0.063W	6	
R8629	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R8630	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R8631	ERJ3EKF75R0	M 0.75HM, 1/16W	1	
R8632-37	ERJ2GEJ560	M 56 OHM, J,0.063W	6	
R8640	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R8641	ERJ2GEJ560	M 56 OHM, J,0.063W	1	
R8643	ERJ2GEJ560	M 56 OHM, J,0.063W	1	
R8645	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R8646	ERJ3EKF75R0	M 0.75HM, 1/16W	1	
R8647	ERJ3EKF1002	M 10KOHM, 1/16W	1	
R8648	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R8649	ERJ3EKF75R0	M 0.75HM, 1/16W	1	
R8650	ERJ2GEJ560	M 56 OHM, J,0.063W	1	
R8651	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
R8652	ERJ2GEJ332	M 3.3KOHM, J,0.063W	1	
R8653	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R8654,55	ERJ2GEJ560	M 56 OHM, J,0.063W	2	
R8656	ERJ3EKF1002	M 10KOHM, 1/16W	1	
R8657	ERJ3EKF2702V	M27.0KOHM, 1/16W	1	
R8658	ERJ2GEJ560	M 56 OHM, J,0.063W	1	
R8659	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R8661	ERJ3EKF6802	M 68KOHM, 1/16W	1	
R8665	EXB2HVR000	RESISTOR ARRAY	1	
R8666	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R8667	ERJ2GEJ331	M 330 OHM, J,0.063W	1	
R8669	ERJ2GEJ331	M 330 OHM, J,0.063W	1	
R8671,72	ERJ6GEYJ102	M 1KOHM,J,1/10W	2	
R8673	EXB2HVR000	RESISTOR ARRAY	1	
R8674	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R8678	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R8682	ERJ3EKF4702	M 47KOHM, 1/16W	1	
R8686,87	ERJ2GEJ103	M 10KOHM, J,0.063W	2	
R8688,89	ERJ2GE0R00	M 0.0 OHM, J,0.063W	2	
R8690	ERJ2GEJ333	M 33KOHM, J,0.063W	1	
R8691	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R8692	ERJ3EKF5102	M51.0KOHM, 1/16W	1	
R8693	ERJ2GEJ333	M 33KOHM, J,0.063W	1	
R8695	ERJ2GEJ223	M 22KOHM, J,0.063W	1	
R8696	ERJ3EKF5102	M51.0KOHM, 1/16W	1	
R8697	ERJ2GEJ223	M 22KOHM, J,0.063W	1	
R8698	ERJ2GEJ472	M 4.7KOHM, J,0.063W	1	
R8700	ERJ2GEJ472	M 4.7KOHM, J,0.063W	1	
R8702	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
R8704	ERJ2GEJ101	M 100 OHM, J,0.063W	1	
R8705	ERJ2GEJ222	M 2.2KOHM, J,0.063W	1	
R8706	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R8707	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R8708	ERJ2GEJ222	M 2.2KOHM, J,0.063W	1	
R8709	ERJ3EKF1272	M12.7KOHM, 1/16W	1	
R8710	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R8711	ERJ2GEJ222	M 2.2KOHM, J,0.063W	1	
R8712	ERJ2GEJ472	M 4.7KOHM, J,0.063W	1	
R8715	ERJ2GEJ473	M 47KOHM,J,0.063W	1	
R8716	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R8717	ERJ3GEY0R00	M 0 OHM, 1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R8719	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R8720-25	ERJ3GEY0R00	M 0 OHM, 1/16W	6	
R8726	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R8727	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R8732	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R8733	ERJ3EKF3572	M35.7KOHM, 1/16W	1	
R8734	ERJ3EKF3242	M32.4KOHM, 1/16W	1	
R8735	ERJ2GEJ104	M 100KOHM, J,0.063W	1	
R8736,37	ERJ2GE0R00	M 0.0 OHM, J,0.063W	2	
R8738	ERJ3EKF6802	M 68KOHM, 1/16W	1	
R8741,42	ERJ2GE0R00	M 0.0 OHM, J,0.063W	2	
R8744	ERJ3EKF3602	M 36KOHM, 1/16W	1	
R8746	ERJ3EKF4992	M 49.9KOHM, 1/16W	1	
R8747,48	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R8749	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R8751-53	ERJ3GEY0R00	M 0 OHM, 1/16W	3	
R8755	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R8756,57	ERJ2GE0R00	M 0.0 OHM, J,0.063W	2	
R8777	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R8779	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R8780,81	ERJ2GEJ103	M 10KOHM, J,0.063W	2	
R8782-87	EXB38VR000	RESISTOR ARRAY	6	
R8788	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R8791	ERJ2GEJ332	M 3.3KOHM, J,0.063W	1	
R8792,93	ERJ2GE0R00	M 0.0 OHM, J,0.063W	2	
R8794	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R8795-98	ERJ3GEYJ560	M 56 OHM,J,1/16W	4	
R8799-02	ERJ2GEJ103	M 10KOHM, J,0.063W	4	
R8817,18	ERJ2GEJ473	M 47KOHM,J,0.063W	2	
R8821-26	ERJ3GEY0R00	M 0 OHM, 1/16W	6	
R8837,38	ERJ2GEJ103	M 10KOHM, J,0.063W	2	
R8839	ERJ3EKF6801	M 6.8KOHM, 1/16W	1	
R8841	ERJ3EKF1801	M 1.8KOHM, 1/16W	1	
R8842	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R8843	ERJ2GEJ182	M 1.8KOHM, J,0.063W	1	
R8844	ERJ2GE0R00	M 0.0 OHM, J,0.063W	1	
R8845	ERJ2GEJ103	M 10KOHM, J,0.063W	1	
R9060-67	ERJ3GEYJ101	M 100 OHM,J,1/16W	8	
R9070	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R9074	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R9076	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R9095	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9097	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9099	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R9100,01	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9102	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R9106	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9107	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	1	
R9108,09	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9110	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R9111	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R9113	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9120	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R9121	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9127	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9129	ERJ3GEYJ683	M 68KOHM,J,1/16W	1	
R9134	ERJ3GEYJ333	M 33KOHM,J,1/16W	1	
R9140	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R9141-45	ERJ3GEYJ101	M 100 OHM,J,1/16W	5	
R9148	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9149	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9150,51	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9152,53	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R9154,55	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R9156	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9158,59	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9160,61	ERJ3GEY0R00	M 0 OHM, 1/16W	2	
R9162	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9164-66	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	
R9167,68	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	
R9169	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9170-72	ERJ3GEYJ393	M 39KOHM,J,1/16W	3	
R9173-75	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	
R9177	ERJ3GEYJ223	M 22KOHM,J,1/16W	1	
R9178	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9179	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9180	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9181-84	ERJ3GEYJ102	M 1KOHM,J,1/16W	4	
R9185,86	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9187,88	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	2	
R9189,90	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9192	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9193	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9194	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9196	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9198	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9199	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R9201,02	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R9203	ERJ3GEYJ102	M 1KOHM,J,1/16W	1	
R9204,05	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R9206,07	ERJ3GEYJ102	M 1KOHM,J,1/16W	2	
R9209	ERJ3GEYJ100	M 10 OHM,J,1/16W	1	
R9210	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	1	
R9215	ERJ3GEYJ123	M 12KOHM,J,1/16W	1	
R9217-22	ERJ3GEYJ103	M 10KOHM,J,1/16W	6	
R9236	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9237	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9244,45	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	
R9247,48	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R9300,01	ERJ3GEYJ820	M 82 OHM,J,1/16W	2	
R9302,03	D1HG8208A002	NETWORK RESISTER	2	
R9304,05	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9306,07	EXB38V820J	RESISTOR ARRAY	2	
R9308	D1HG8208A002	NETWORK RESISTER	1	
R9309,10	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9311,12	ERJ3GEYJ820	M 82 OHM,J,1/16W	2	
R9313,14	D1HG8208A002	NETWORK RESISTER	2	
R9315,16	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9318	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9319	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9320	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9367	ERJ3GEYJ181	M 180 OHM,J,1/16W	1	
R9371	EXB2HV470JV	RESISTOR ARRAY	1	
R9372	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R9373	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R9374	EXB38V470J	RESISTOR ARRAY	1	
R9375	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9389-91	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	
R9393-95	D1HG8208A002	NETWORK RESISTER	3	
R9396,97	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9398	EXB38V820J	RESISTOR ARRAY	1	
R9404	EXB2HV470JV	RESISTOR ARRAY	1	
R9412-21	EXB38V470J	RESISTOR ARRAY	10	
R9428	EXB38V103J	RESISTOR ARRAY	1	
R9430	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9433	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9437,38	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9440	EXB2HV470JV	RESISTOR ARRAY	1	
R9441	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9442	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9443	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9444	D1HG8208A002	NETWORK RESISTER	1	
R9445	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9446	EXB38V820J	RESISTOR ARRAY	1	
R9448	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9449,50	D1HG8208A002	NETWORK RESISTER	2	
R9451,52	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9453-57	D1HG8208A002	NETWORK RESISTER	5	
R9458,59	ERJ3GEYJ820	M 82 OHM,J,1/16W	2	
R9460,61	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9462,63	EXB38V820J	RESISTOR ARRAY	2	
R9464,65	ERJ3GEYJ220	M 22 OHM,J,1/16W	2	
R9466,67	ERJ3GEYJ820	M 82 OHM,J,1/16W	2	
R9468	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R9469	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9470	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9471	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9472	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9475	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9480	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9482-85	ERJ3EKF1001	M 1KOHM, 1/16W	4	
R9486	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R9487	ERJ3GEYJ151	M 150 OHM,J,1/16W	1	
R9488	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R9489-95	ERJ3GEYJ470	M 47 OHM,J,1/16W	7	
R9496	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9497	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	1	
R9498	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9506	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9507	ERJ3GEYJ560	M 56 OHM,J,1/16W	1	
R9512	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9514	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9515	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9523	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9525	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9526	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9527,28	EXB2HV272JV	RESISTOR ARRAY	2	
R9529,30	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9531-33	ERJ3GEYJ470	M 47 OHM,J,1/16W	3	
R9534	EXB38V470J	RESISTOR ARRAY	1	
R9535,36	ERJ3GEYJ470	M 47 OHM,J,1/16W	2	
R9538	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9539	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9542	ERJ3GEYJ680	M 68 OHM,J,1/16W	1	
R9543,44	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9545	ERJ3GEYJ304V	M 300KOHM,J,1/16W	1	
R9546	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9548-50	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	
R9552-54	ERJ3GEYJ470	M 47 OHM,J,1/16W	3	
R9555	EXB38V470J	RESISTOR ARRAY	1	
R9556	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9557	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R9560	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9574	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9578	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9580-83	ERJ3EKF1001	M 1KOHM, 1/16W	4	
R9584	ERJ3GEYJ330	M 33 OHM,J,1/16W	1	
R9585,86	ERJ3GEYJ470	M 47 OHM,J,1/16W	2	
R9587-95	EXB38V470J	RESISTOR ARRAY	9	
R9596-99	ERJ3GEYJ470	M 47 OHM,J,1/16W	4	
R9601	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R9602	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9616	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9619,20	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	2	
R9622	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9624,25	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	
R9628	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9630	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9631	EXB2HV272JV	RESISTOR ARRAY	1	
R9632-34	ERJ3GEYJ470	M 47 OHM,J,1/16W	3	
R9637	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R9639	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R9641	ERJ3GEYJ470	M 47 OHM,J,1/16W	1	
R9643	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9645	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9646	EXB2HV272JV	RESISTOR ARRAY	1	
R9800	ERJ3EKF1302	M 23KOHM, 1/16W	1	
R9801	ERJ3EKF2402	M 24KOHM, 1/16W	1	
R9802	ERJ3EKF6202	M 62KOHM, 1/16W	1	
R9803	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9804	ERJ3EKF2402	M 24KOHM, 1/16W	1	
R9805	ERJ3EKF3002	M 30KOHM, 1/16W	1	
R9806	ERJ3EKF3902	M 39KOHM, 1/16W	1	
R9807	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9808	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9810	ERJ3EKF3001	M 3KOHM, 1/16W	1	
R9813	ERJ3EKF2401	M 2.4KOHM, 1/16W	1	
R9814	ERJ3EKF6802	M 68KOHM, 1/16W	1	
R9815	ERJ3EKF2202	M 22KOHM, 1/16W	1	
R9816	ERJ3EKF8202	M 82KOHM, 1/16W	1	
R9821	ERJ3GEYJ103	M 10KOHM,J,1/16W	1	
R9823-28	ERJ3GEYJ101	M 100 OHM,J,1/16W	6	
R9830,31	ERJ3GEYJ103	M 10KOHM,J,1/16W	2	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
R9838,39	ERJ3GEYJ101	M 100 OHM,J,1/16W	2	
R9840	ERJ3GEYJ220	M 22 OHM,J,1/16W	1	
R9841	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9842-44	ERJ3GEYJ101	M 100 OHM,J,1/16W	3	
R9845	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	1	
R9846,47	EXB2HV272JV	RESISTOR ARRAY	2	
R9848,49	EXB2HV470JV	RESISTOR ARRAY	2	
R9850	ERJ3GEYJ473	M 47KOHM,J,1/16W	1	
R9854	ERJ3GEYJ101	M 100 OHM,J,1/16W	1	
R9859	EXB38V101J	RESISTOR ARRAY	1	
R9868	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9869-71	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	
R9872	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9875-77	ERJ3GEYJ103	M 10KOHM,J,1/16W	3	
R9878	ERJ3EKF3902	M 39KOHM, 1/16W	1	
R9879	ERJ3EKF2002	M 20KOHM, 1/16W	1	
R9880	ERJ3EKF3602	M 36KOHM, 1/16W	1	
R9883	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9884	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
R9891	ERJ3EKF4702	M 47KOHM, 1/16W	1	
R9892	ERJ3EKF1502	M 15KOHM, 1/16W	1	
R9893	ERJ3EKF3602	M 36KOHM, 1/16W	1	
R9896	ERJ3GEY0R00	M 0 OHM, 1/16W	1	
R9897	ERJ3GEYJ104	M 100KOHM,J,1/16W	1	
RM2501	PNA4701M05TV	REMOCO RECEIVER	1	
RTL	TNAG167S	CIRCUIT BOARD DT	1	PAVCA ⚠
RTL	TNPA3769S	CIRCUIT BOARD H	1	PAVCA ⚠
RTL	TNPA3855S	CIRCUIT BOARD HC	1	PAVCA ⚠
RTL	TNPA3903BLS	CIRCUIT BOARD DG	1	PAVCA ⚠
RTL	TXNPA1BJTUE	CIRCUIT BOARD PA	1	PAVCA ⚠
RTL	ETXMM611MEH	CIRCUIT BOARD P	1	PAVCA ⚠
RTL	TXNC11DNTUJ	CIRCUIT BOARD C1	1	PAVCA ⚠
RTL	TXNC21DNTUJ	CIRCUIT BOARD C2	1	PAVCA ⚠
RTL	TXNC31DNTUJ	CIRCUIT BOARD C3	1	PAVCA ⚠
RTL	TXNC41DNTUJ	CIRCUIT BOARD C4	1	PAVCA ⚠
RTL	TXNC51DNTUJ	CIRCUIT BOARD C5	1	PAVCA ⚠
RTL	TXNC61DNTUJ	CIRCUIT BOARD C6	1	PAVCA ⚠
RTL	TNPA3820AHS	CIRCUIT BOARD D	1	PAVCA ⚠
RTL	TXNSC1DNTUJ	CIRCUIT BOARD SC	1	PAVCA ⚠
RTL	TXNSC1DNTUJ	CIRCUIT BOARD SD	1	PAVCA ⚠
RTL	TXNSS1DNTUJ	CIRCUIT BOARD SS	1	PAVCA ⚠
RTL	TNPA3841S	CIRCUIT BOARD SS2	1	PAVCA ⚠
RTL	TNPA3842S	CIRCUIT BOARD SS3	1	PAVCA ⚠
RTL	TXNSU1DNTUJ	CIRCUIT BOARD SU	1	PAVCA ⚠
RTL	TNPA3764ADS	CIRCUIT BOARD G	1	PAVCA ⚠
RTL	TNPA3965ACS	CIRCUIT BOARD GK	1	PAVCA ⚠
RTL	TNPA3853ABS	CIRCUIT BOARD GS	1	PAVCA ⚠
RTL	TNPA3762AGS	CIRCUIT BOARD K	1	PAVCA ⚠
RTL	TNPA3964ABS	CIRCUIT BOARD S	1	PAVCA ⚠
S2	K1KA02BA0061	2P CONNECTOR	1	
SC2	K1KA02A00626	2P CONNECTOR	1	
SC20	K1KA20AA0008	20P CONNECTOR	1	
SC23	K1KA03AA0193	3P CONNECTOR	1	
SC30	K1KA08AA0192	8P CONNECTOR	1	
SC41-44	K1ML80B00001	80P CONNECTOR	4	
SC45,46	K1KA09A00239	9P CONNECTOR	2	
SD1-D4	K1MN96B00006	96P CONNECTOR	4	
SD46	K1KB09A00045	9P CONNECTOR	1	
SS11	K1KA02A00626	2P CONNECTOR	1	
SS12	K1KA10AA0194	10P CONNECTOR	1	
SS20,21	K1KA07A00170	7P CONNECTOR	2	
SS22,23	K1KB07AA0087	7P CONNECTOR	2	
SS34	K1KA03AA0193	3P CONNECTOR	1	
SS35	K1KA10AA0194	10P CONNECTOR	1	
SS42	K1KA12AA0194	12P CONNECTOR	1	
SS44	K1KA20AA0009	20P CONNECTOR	1	
SS51-56	K1MN13B00020	13P CONNECTOR	6	
SU1-U4	K1MN96B00006	96P CONNECTOR	4	
SU45	K1KB09A00045	9P CONNECTOR	1	
SW2500	K0F122A00172	SWITCREMOTE CONTROLH	1	
SW3754-58	EVQ11G05R	SWITCH	5	
T6602	ETS28AU389AC	SWITCHING TRANS	1	
TU8200	ENGE6408DF	TUNER	1	PAVCA ⚠
VR6000	EVMEASA00B14	CONTROL 10KOHMB 0.3W	1	
VR6600	EVMEASA00B13	CONTROL 1KOHMB 0.3W	1	
VR6601,02	EVMEASA00B53	CONTROL 5KOHMB 0.3W	2	
X1100	H0J100500030	CRYSTAL	1	
X1101	H0J327200114	CRYSTAL	1	
X4004	H0J270500087	CRYSTAL	1	
X8005	H0J270500061	CRYSTAL	1	
X8200	H0J250500050	CRYSTAL	1	
X9000	H2D200500011	CRYSTAL	1	
X9500	H0J200500038	CRYSTAL	1	
XF8200	J0C4405B0004	LC FILTER	1	
ZA2300,01	K4CZ01000027	COMPATIBLE WITH JALCO K9	2	
ZA3701	K4CD01000013	TERMINAL	1	
ZA4001	K4CD08000002	TERMINAL	1	
ZA4003-05	K4CD08000002	TERMINAL	3	
ZA4007-09	TESA169	SHIELD CLIP	3	
ZA4011-14	TESA169	SHIELD CLIP	4	
ZA5600,01	K4CZ01000027	COMPATIBLE WITH JALCO K9	2	
ZA6001-03	K4CD01000011	TERMINAL	3	
ZA6401-03	K4CD01000011	TERMINAL	3	
ZA7101-06	K4CD01000013	TERMINAL	6	
ZA7201-06	K4CD01000013	TERMINAL	6	
ZA7301-05	K4CD01000013	TERMINAL	5	
ZA7401-05	K4CD01000013	TERMINAL	5	
ZA7501-06	K4CD01000013	TERMINAL	6	
ZA7601-06	K4CD01000013	TERMINAL	6	
ZA9001	K4CD01000011	TERMINAL	1	
A101,02	RA362MSV7	ARRESTOR	2	⚠
C101	ECQU2A105ML	P 1UF, 250V	1	⚠
C102	ECQU2A224ML	P 0.22UF, 250V	1	⚠
C103,04	ECKDNA331KBR	250V 330P	2	PAVCA ⚠
C106,07	MMXC2W474K	450V0.47	2	PAVCA
C112	KZE1H101	C 100UF 50V	1	
C115	ECQE6472B45	C 4700U 630V	1	
C116,17	KMQ2W221L	C 220U 450V	2	
C119	ECKENA221KBR	C 221P 250V	1	⚠
C129	ECJ2FB1H104K	C 0.1UF, K, 50V	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
C131	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C132	ECJ2XB1H102K	C 1000PF, K, 50V	1	
C133	ECQE6473RKF	630V 0.047	1	
C134	MMXC2W105K	C 1P 450V	1	
C137	ECJ2FB1E224K	C 22UF, K, 25V	1	
C201	KZE1H101	C 100UF 50V	1	
C202	KZE1E470	C 470U 25V	1	
C203	RR3DD101K	2KV 100P	1	PAVCA
C206	MPEF12333H	1250V 0.033	1	PAVCA
C208	RR3DD101K	2KV 100P	1	PAVCA
C209,10	KMQ2W221L	C 220U 450V	2	
C211	MPEF12333H	1250V 0.033	1	PAVCA
C251	KMQ220901Z	220V 900	1	
C253,54	KMQ220901Z	220V 900	2	
C256,57	ECQE6472B45	C 4700U 630V	2	
C301	KZE1E470	C 470U 25V	1	
C302	RR3DD101K	2KV 100P	1	PAVCA
C303	RR3DD101K7	C 100P 2KV	1	
C305	ECWH8183HV	800V 0.018	1	
C306	KZE1E470	C 470U 25V	1	
C351,52	KZE1E182S	C 1800UF 25V	2	
C354,55	TBB475K1	16V 4.7	2	
C356	KZE1E821L	C 8200UF 25V	1	
C357	ECJ1XB1H104K	C 10PF, J, 50V	1	PAVCA
C358	KZE1E101	C 100UF 25V	1	
C359	ECJ1XB1H104K	C 10PF, J, 50V	1	PAVCA
C360	KZE1E101	C 100UF 25V	1	
C361	ECJ1XB1H104K	C 10PF, J, 50V	1	PAVCA
C363	KZE1E821L	C 8200UF 25V	1	
C364	ECJ1XB1H104K	C 10PF, J, 50V	1	PAVCA
C365	KZE2A270	C 27UF 100V	1	
C401	TAB104K2E	250V 0.1	1	
C402	KMQ2C471H	160V 470	1	PAVCA
C405	TAB104K2E	250V 0.1	1	
C412	ECJ2FB1E224K	C 22UF, K, 25V	1	
C413,14	KZE2A471S	C 470UF 100V	2	
C415	KZE1H221	50V 220	1	
C501	ECQU2A473ML	P 0.047UF, M,250V	1	⚠
C502,03	ECJ2FB1H104K	C 0.1UF, K, 50V	2	
C504,05	KZE1E470	C 470U 25V	2	
C506	KMQ2W560	450V 56	1	PAVCA
C508	MBB474K1	16V 0.47	1	
C509	ECJ2XB1H103K	C 0.01UF, K, 50V	1	
C510	KZE1H101	C 100UF 50V	1	
C514	KZE1E470	C 470U 25V	1	
C515	ECJ2FB1H104K	C 0.1UF, K, 50V	1	
C551	ECKENA221KBR	C 221P 250V	1	⚠
C552	KZE1A152	10V 1500	1	PAVCA
C555	TBB474K2	25V 0.47	1	
C556	KZE1E101	C 100UF 25V	1	
C557	TBB475K1	16V 4.7	1	
C558	KZE1E101	C 100UF 25V	1	
C559-61	ECJ1XB1H104K	C 10PF, J, 50V	3	PAVCA
CN01	B3P-VH	CONNECTOR	1	
CN02	B8B-PH-KS	CONNECTOR	1	PAVCA
CN03,04	B3P4VH-B-L	CONNECTOR	2	
CN06	B8B-PH-KS	CONNECTOR	1	PAVCA
CN08	B3P-VH	CONNECTOR	1	
D101,02	MA111	DIODE	2	
D104	S3V60	DIODE	1	
D109	ERA15-10	DIODE	1	
D110	M1F60	DIODE	1	
D111	S3V60	DIODE	1	
D201,02	MA165	DIODE	2	
D203,04	MA728	DIODE	2	
D205,06	MA165	DIODE	2	
D207,08	MA728	DIODE	2	
D251	YG901C3R	DIODE	1	
D252	MA111	DIODE	1	
D253-55	YG901C3R	DIODE	3	
D301,02	MA165	DIODE	2	
D303,04	MA728	DIODE	2	
D351,52	YG805C06R	DIODE	2	
D355	AG01A	DIODE	1	
D358	D1FM3	DIODE	1	PAVCA
D401	AG01A	DIODE	1	
D402-06	YG901C3R	DIODE	5	
D501	S1WBA80	DIODE	1	⚠
D502,03	ERA22-10	DIODE	2	
D505	MA111	DIODE	1	
D506	ST3D82	DIODE	1	
D508	AG01A	DIODE	1	
D511	ERA91-02	DIODE	1	
D551	RK39	DIODE	1	
D554	MA165	DIODE	1	
D555	MA111	DIODE	1	
D556	MA165	DIODE	1	
D557	MA111	DIODE	1	
F201	216005BP	FUSE 250V 5A	1	⚠
F301	HU216005BP	250V 5A	1	⚠
F501	HU216002BP	250V 2A	1	⚠
IC501	MIP3E30MP	IC	1	⚠
IP201	ERBSE0R75U	24V 0.75A	1	
IP301	ERBSE0R75U	24V 0.75A	1	
K101	DG12D1-0	RELAY	1	⚠
K102	DLS12D1-0	RELAY	1	⚠
L101,02	P3165208Z	8A 6.5MH	2	PAVCA ⚠
L103	ETB50CZ11GAD	TRANSFORMER	1	PAVCA
L104	EXCELSR35	BEAD CHOKE	1	
L106	EXCELSR35	BEAD CHOKE	1	
L108	EXCELSR35	BEAD CHOKE	1	
L109	P3165208Z	8A 6.5MH	1	PAVCA ⚠
L352,53	EXCELDR35	BEAD CHOKE	2	
L401	H231013HY	3.5A 100UH	1	PAVCA
L402	LH8TB681K	0.32A 680UH	1	PAVCA
L501	EXCELSA35	BEAD CHOKE	1	
L502	EXCELDR35	BEAD CHOKE	1	
MC101	MP00P6	MODUIE	1	⚠
MC102	MP00P13	MODUIE	1	PAVCA ⚠
MC103	MLLPC103	MODUIE	1	PAVCA ⚠
MC201	MLZNC153	MODULE	1	PAVCA ⚠
MC202,03	MP00R3	MODULE	2	PAVCA ⚠
MC301	MLZNC222	MODUIE	1	PAVCA ⚠
MC401	MLLSB103	MODUIE	1	PAVCA ⚠
MC502	MLWNB473	MODUIE	1	PAVCA ⚠
MC601	MLSZA100	MODULE	1	⚠
MC701	MLZDD103	MODUIE	1	PAVCA ⚠
P2	B2P3-VH-B	CONNECTOR	1	
P5	B11B-PH-KS	CONNECTOR	1	
P9	B03P-VL	CONNECTOR	1	PAVCA ⚠
P10	B6B-PH-KS	CONNECTOR	1	
P11	B2P3-VH-B	CONNECTOR	1	
P12	B10B-PH-KS	CONNECTOR	1	
P23	B3B-PH-KS	CONNECTOR	1	
P25	B20B-PHDSS	CONNECTOR	1	
PC503	PS2581A	PHOTO COUPLER	1	⚠
PC505-07	PS2581A	PHOTO COUPLER	3	⚠
Q103	2SD2185	TRANSISTOR	1	
Q104	2SB1440	TRANSISTOR	1	
Q106	2SD1819A	TRANSISTOR	1	
Q107	2SB709A	TRANSISTOR	1	
Q108	2SD601A	TRANSISTOR	1	
Q301,02	2SK3568	FET	2	⚠

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
Q351,52	2SK2903	FET	2	PAVCA
Q353,54	2SB1218A	TRANSISTOR	2	
Q404	2SK3568	FET	1	
Q405,06	2SA1767	TRANSISTOR	2	
Q501	2SK3302	FET	1	
Q502	2SK2731	FET	1	PAVCA
Q551,52	HAT1130R	FET	2	
Q553	2SB710A	TRANSISTOR	1	
R101	ERC12UGK185	S 1.8MOHM, K,1/2W	1	
R103	R5B100J	5W 10OHM	1	
R104-06	ERJ6ENF1213	M 121KOHM, 1/10W	3	
R107	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R108	ERJ6ENF1213	M 121KOHM, 1/10W	1	
R109,10	RF5EJR22B	5W 0.22	2	PAVCA
R111,12	RF5EJR18B	5W 0.18OHM	2	
R115	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R116	ERJ12YJ470	M 47 OHM, J,1/2W	1	
R117	ERQ14AJ330P	F 33 OHM, J,1/4W	1	
R118	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R119	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R120	ERJ12YJ470	M 47 OHM, J,1/2W	1	
R122	ERJ6GEYJ154	M 150KOHM,J,1/10W	1	
R123	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R125	ERJ12YJ470	M 47 OHM, J,1/2W	1	
R127-29	ERJ6GEYJ183	M 18KOHM,J,1/10W	3	
R131	ER0S2CKF4993	M 499KOHM, F,1/4W	1	
R132,33	ERJ6ENF2493	M 249KOHM, 1/10W	2	
R140,41	ERJ6ENF5233	M 523KOHM, 1/10W	2	PAVCA
R142	ERJ6ENF5623	M 523KOHM, 1/10W	1	PAVCA
R147	ERJ6GEYJ393	M 39KOHM,J,1/10W	1	
R149	ERJ6GEYJ393	M 39KOHM,J,1/10W	1	
R150,51	ERJ6ENF2493	M 249KOHM, 1/10W	2	
R152	ERJ6GEYJ183	M 18KOHM,J,1/10W	1	
R153	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R154	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R155	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R156-59	ERJ6GEYJ154	M 150KOHM,J,1/10W	4	
R161	ERJ12YJ100	M 10 OHM,J, 1/2W	1	
R201,02	ERJ12YJ221U	0.5W 220	2	
R203,04	ERQ14AJ220J	0.25W 22	2	PAVCA
R208,09	ERJ6GEYJ223	M 22KOHM,J,1/10W	2	
R210	ERQ14AJ4R7J	0.25W 4.7	1	PAVCA
R211-13	ERJ12YJ683	M 68KOHM, 1/2W	3	
R214,15	ERJ12YJ221U	0.5W 220	2	
R216,17	SG732K220	0.5W 22	2	PAVCA
R218,19	ERJ6GEYJ223	M 22KOHM,J,1/10W	2	
R251,52	ERDS1TJ472	C 4.7KOHM, J,1/2W	2	
R253-55	ERJ6ENF9092	M90.9KOHM, 1/16W	3	
R256,57	ERJ6GEYJ682	M 6.8KOHM,J,1/10W	2	
R258-60	ERJ6ENF5492	M54.9KOHM, 1/10W	3	
R261	ERJ6ENF7152	M71.5KOHM, 1/10W	1	
R262	ERJ6GEYJ220	M 22 OHM,J,1/10W	1	
R263	ERJ6GEYJ4R7	M 4.7 OHM,J,1/10W	1	
R264,65	ERDS1TJ472	C 4.7KOHM, J,1/2W	2	
R266-69	ERDS1TJ432	C 4.3KOHM, J,1/2W	4	PAVCA
R270	ERJ6GEY0R00	M 0 OHM, 1/10W	1	
R301,02	ERJ12YJ101	M 100 OHM,J, 1/2W	2	
R303,04	SG732K560	0.5W 56OHM	2	PAVCA
R305-07	ERJ12YJ683	M 68KOHM, 1/2W	3	
R308,09	ERJ6GEYJ103	M 10KOHM,J,1/10W	2	
R310	ERQ14AJ4R7J	0.25W 4.7	1	PAVCA
R351	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R353	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R354	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R358	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R359,60	ERJ6GEYJ513	M 51KOHM,J,1/10W	2	
R361	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R362	ERDS2TJ101	C 100 OHM, J,1/4W	1	
R364	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R365	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R366,67	ERJ6GEYJ473	M 47KOHM,J,1/10W	2	
R368	ERJ6GEYJ101	M 100 OHM,J,1/10W	1	
R369	ERJ6GEYJ202	M 2KOHM,J,1/10W	1	
R370	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R371	ERJ6ENF1622	M16.2KOHM, 1/10W	1	
R372	ERJ6GEYJ1R0	M 1 OHM,J,1/10W	1	
R373	ERDS2TJ471	C 470 OHM, J,1/4W	1	
R374	ERJ12YJ100	M 10 OHM,J, 1/2W	1	
R375	ERJ6GEYJ681	M 680 OHM,J,1/10W	1	
R376	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R401	ERJ12YJ100	M 10 OHM,J, 1/2W	1	
R407	ERJ6ENF2152	M21.5KOHM, 1/10W	1	
R408	MPC2WR05K	2W 0.05	1	PAVCA
R410	ERJ6GEYJ220	M 22 OHM,J,1/10W	1	
R412	ERJ6ENF2152	M21.5KOHM, 1/10W	1	
R413	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R414	ERJ6GEYJ5R6	M 5.6 OHM,J,1/10W	1	
R415	ERJ6ENF2152	M21.5KOHM, 1/10W	1	
R416,17	ERJ6GEYJ152	M 1.5KOHM,J,1/10W	2	
R418-20	ERJ6ENF2212	M22.1KOHM, 1/10W	3	
R474	ERJ6ENF1302	M 13KOHM, 1/10W	1	
R477-79	ERJ6ENF1302	M 13KOHM, 1/10W	3	
R481	ERJ6GEYJ154	M 150KOHM,J,1/10W	1	
R484	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R485	ERJ6GEYJ154	M 150KOHM,J,1/10W	1	
R501	ERJ12YJ474	M 470KOHM, 1/2W	1	
R503	ERJ12YJ474	M 470KOHM, 1/2W	1	
R505	ERJ6GEYJ334	M 330KOHM,J,1/10W	1	
R507,08	ERJ6GEYJ334	M 330KOHM,J,1/10W	2	
R509-12	ERJ6ENF8253	M 825KOHM, 1/10W	4	
R514,15	ERJ6ENF8253	M 825KOHM, 1/10W	2	
R518	ERJ12YJ100	M 10 OHM,J, 1/2W	1	
R519	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R528-30	ERJ6ENF2703	M 270KOHM, 1/10W	3	
R532	ERJ6ENF2703	M 270KOHM, 1/10W	1	
R560	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R561	ERDS2TJ332	C 3.3KOHM, J,1/4W	1	
R563	ERJ6GEYJ332	M 3.3KOHM,J,1/10W	1	
R564	ERDS2TJ391	C 390 OHM, J,1/4W	1	
R565	ERJ6GEYJ473	M 47KOHM,J,1/10W	1	
R566	ERJ6GEYJ222	M 2.2KOHM,J,1/10W	1	
R567	ERJ6GEYJ103	M 10KOHM,J,1/10W	1	
R568	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R569,70	ERJ12YJ151	M 150 OHM,J, 1/2W	2	
R572-75	ERJ6ENF2703	M 270KOHM, 1/10W	4	
R580	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
R581	ERJ6GEYJ153	M 15KOHM,J,1/10W	1	
R582	ERJ6GEYJ102	M 1KOHM,J,1/10W	1	
RF101	A5MC100JP2	139C 10	1	⚠
T201	ETB50LZ136AD	TRANSFORMER	1	PAVCA ⚠
T202	ETB50LZ126AD	TRANSFORMER	1	PAVCA ⚠
T301	ETB57LZ186AD	TRANSFORMER	1	PAVCA ⚠
T501	ETB25KA1C6AD	TRANSFORMER	1	⚠
VR251	EVMEASA01B15	VARIABLE RESISTOR	1	
VR351	EVMEASA01B14	VARIABLE RESISTOR	1	
VR401	EVMEASA01B14	VARIABLE RESISTOR	1	
Z101	TND14V751	VARISTOR	1	⚠
Z102	ERZVGAD471	VARISTOR	1	⚠
Z501	ERZVGAD471	VARISTOR	1	⚠
ZD101	MA4047N	4.7V 0.4W	1	PAVCA
ZD201,02	MA4270N	27V 0.4W	2	
ZD203	MA4300N	30V 0.4W	1	
ZD301-04	1ZB27	27V 1W	4	PAVCA
ZD351-54	MA8150	ZENER DIODE	4	
ZD401	MA4033L	ZENER DIODE	1	
ZD501	MA8270	ZENER DIODE	1	
ZD503	MA4120N	ZENER DIODE	1	

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks